



P/N 875024M Rev. D 01/2011

This manual is part of a set of two supporting this product.  
Refer to P/N 850023M for Installation Instructions.

Ce manuel est disponible en français, simplement  
en faire la demande. Numéro de la pièce 875024CF.

#### WHAT'S INSIDE

Table of Contents	2
<b>Safety and Your Fireplace</b>	2
FREE Safety Guard Offer (Protects Against Burns)	2
<b>Important Safety Information</b>	4
<b>Attaching the Safety-in-Operation Warnings</b>	5
[EN FRANÇAIS] L'information de sûreté importante	3-4
Apposition des mises en garde relatives à la sécurité d'utilisation	5
[EN ESPAÑOL] Información importante de seguridad	3-4
Colocación de advertencias de seguridad en operación	5



Wait...  
**DON'T  
THROW  
IT AWAY!**

This manual contains  
important operating  
and safety  
information.

**INSTALLER:** Leave this manual with the appliance.

**CONSUMER:** Retain this manual for future reference.

**INSTALLATEUR :** Laissez cette notice avec l'appareil.

**CONSOMMATEUR :** Conservez cette notice pour consultation ultérieure.

## CARE AND OPERATION INSTRUCTIONS

**MPB35ST B-Vent See-Through  
Gas Fireplaces**

**MERIT™ Plus  
SERIES**

#### MODELS

##### MILLIVOLT:

MPB35ST-NM-B

MPB35ST-PM-B

##### ELECTRONIC:

MPB35ST-NE-B

Tested &  
Listed By  Portland  
Oregon USA  
OMNI-Test Laboratories, Inc.

OTL Report No. 116-F-27-5



## ! WARNING / AVERTISSEMENT / AVISO

- HOT GLASS WILL CAUSE BURNS.
- DO NOT TOUCH GLASS UNTIL COOLED.
- NEVER ALLOW CHILDREN TO TOUCH GLASS.



- UNE SURFACE VITRÉE CHAUDE PEUT CAUSER DES BRÛLURES.
- LAISSER REFROIDIR LA SURFACE VITRÉE AVANT D'Y TOUCHER.
- NE PERMETTEZ JAMAIS À UN ENFANT DE TOUCHER LA SURFACE VITRÉE.

- EL VIDRIO CALIENTE CAUSARÁ QUEMADURAS.
- USTED DEBE NUNCA TOCAR EL VIDRIO CALIENTE.
- LOS NIÑOS DEBEN NUNCA TOCAR EL VIDRIO.

**WARNING:** If the information in these instructions is not followed exactly, a fire or explosion may result, causing property damage, personal injury, or death.

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.
- **WHAT TO DO IF YOU SMELL GAS:**
  - Do not try to light any appliance.
  - Do not touch any electrical switch; do not use any phone in your building.
  - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
  - If you cannot reach your gas supplier, call the fire department.
- Installation and service must be performed by a qualified installer, service agency or the gas supplier.

**AVERTISSEMENT :** Assurez-vous de bien suivre les instructions données dans cette notice pour réduire au minimum le risque d'incendie ou d'explosion ou pour éviter tout dommage matériel, toute blessure ou la mort.

- Ne pas entreposer ni utiliser d'essence ni d'autres vapeurs ou liquides inflammables dans le voisinage de cet appareil ou de tout autre appareil.
- **QUE FAIRE SI VOUS SENTEZ UNE ODEUR DE GAZ :**
  - Ne pas tenter d'allumer d'appareil.
  - Ne touchez à aucun interrupteur. Ne pas vous servir des téléphones se trouvant dans le bâtiment où vous trouvez.
  - Appelez immédiatement votre fournisseur de gaz depuis un voisin. Suivez les instructions du fournisseur.
  - Si vous ne pouvez rejoindre le fournisseur de gaz, appelez le service des incendies.
- L'installation et l'entretien doivent être assurés par un installateur ou un service d'entretien qualifié ou par le fournisseur de gaz.

Thank you for your purchase. We appreciate your business!

Please carefully read and follow all instructions in this manual.  
**Pay special attention to all warnings and safety information.**

Following these safety, care, and operation instructions will help ensure many years of dependable and enjoyable service from your fireplace.

## • FREE SAFETY GUARD OFFER •

*The Lennox® SAFETY GUARD protects against severe burns and injuries by preventing direct contact with the front glass surface of your fireplace.*

To receive your FREE **SAFETY GUARD**, call **1-800-786-7976** or visit **www.lennox.com** (Lennox Hearth Products / Owner Resources)

## Table of Contents

<b>Safety and Your Fireplace</b> .....	<b>2</b>
<b>Important Safety Information</b> .....	<b>4</b>
<b>Attaching the Safety-in-Operation Warnings</b> .....	<b>5</b>
General Information .....	6
Operation/Care of Your Appliance .....	8
Gas Controls/Control Compartment, Access .....	8
Variable Flame Adjustment. ....	9
Venting Operation / Spill Switch. ....	9
Outside Combustion Air Control .....	10
Maintenance. ....	11
Front Glass Enclosure Panel, Removal and Installation .....	12
Logs, Vermiculite & Ember Placement .....	12
Burner Adjustments. ....	15
Millivolt Appliance Checkout .....	16
Electronic Appliance Checkout .....	16
Warranty .....	17
Replacement Parts .....	17
Product Reference Information .....	17
Wiring Diagrams .....	17
Accessory Components .....	18
Lighting Instructions – Millivolt .....	22
Lighting Instructions – Electronic .....	24
Maintenance Schedule .....	26
Troubleshooting Guide – Millivolt .....	27
Troubleshooting Guide – Electronic .....	27
Replacement Parts List .....	29



We recommend that our gas hearth products be installed and serviced by professionals who are certified in the U.S. by the National Fireplace Institute® (NFI) as NFI Gas Specialists.

# Safety and Your Fireplace

## All parts of your Lennox Hearth Products fireplace get EXTREMELY HOT!

- ☐ To prevent severe burns and injuries, install a screen or physical barrier to prevent direct contact with the glass.

**To order a FREE Lennox® SAFETY GUARD for your fireplace, see details at left.**

- ☐ Follow the safety instructions below and be sure everyone in your household understands this burn hazard:

- **The surfaces on your fireplace get EXTREMELY HOT!**

- **The glass on the front of the fireplace reaches EXTREMELY HIGH temperatures and can cause severe burns if touched.**



- **Keep children away from an operating fireplace. Closely supervise children in any room where a fireplace is operating to prevent contact with glass.**

- **Keep clothing, furniture, gasoline, and other flammable liquids away from the fireplace.**



- **Even after the gas is turned off, fireplace surfaces remain extremely hot.**

- ☐ Be sure to attach the enclosed **Safety-in-Operation Warnings** where you turn on your fireplace, to help remind everyone of the dangers associated with high temperatures (see **page 5**).
- ☐ Read **Important Safety Information** on **page 4**.

[FRENCH]

## ***La sécurité et votre foyer***

**Toutes les parties de votre foyer  
Lennox Hearth Products deviennent  
EXTRÊMEMENT CHAUDES !**

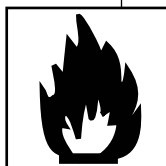
- ☐ Afin d'éviter de vous brûler gravement ou de vous blesser, installez une grille ou une barrière physique pour empêcher tout contact direct avec la vitre.

***Pour commander un PANNEAU DE PROTECTION  
Lennox® GRATUIT pour votre foyer, consultez  
les détails dans la partie gauche.***

- ☐ Suivez les instructions de sécurité ci-dessous et veillez à ce que tous les membres de votre famille soient conscients du danger de brûlure encouru :

- **Les surfaces de votre foyer deviennent EXTRÊMEMENT CHAUDES !**
- **La vitre située à l'avant du foyer atteint des températures EXTRÊMEMENT ÉLEVÉES et peut causer de graves blessures en cas de contact.**
- **Tenez les enfants à l'écart du foyer lorsqu'il fonctionne. Surveillez attentivement les enfants dans les pièces où un foyer est utilisé afin d'éviter qu'ils ne soient en contact avec la vitre.**
- **Tenez tous les vêtements, les meubles, l'essence et tout autre liquide inflammable à l'écart du foyer.**
- **Même après fermeture du gaz, les surfaces du foyer restent extrêmement chaudes.**

- ☐ Veillez à coller les **Étiquettes de mise en garde relatives à la sécurité d'utilisation** à l'endroit où vous utilisez le foyer, pour rappeler à tous les utilisateurs les dangers liés aux températures élevées (**voir page 5**).
- ☐ Lisez la section **Informations importantes relatives à la sécurité**, page 4.



[SPANISH]

## ***Seguridad y su chimenea***

**¡Todas las partes de la chimenea  
Lennox Hearth Products se ponen  
MUY CALIENTES!**

- ☐ Instale una malla o barrera física para evitar el contacto directo con el vidrio y prevenir las quemaduras y lesiones graves.

***Ver los detalles a la izquierda para ordenar  
un Lennox® SAFETY GUARD GRATIS  
para su chimenea.***

- ☐ Siga las instrucciones de seguridad a continuación y asegúrese de que todos en su hogar sepan acerca de este peligro de quemadura:

- **¡Las superficies de la chimenea se ponen MUY CALIENTES!**
- **El vidrio delante de la chimenea alcanza temperaturas EXTREMADAMENTE ALTAS y puede causar quemaduras graves si se toca.**
- **Mantenga a los niños alejados de la chimenea en funcionamiento. Supervise en forma cercana a los niños en cualquier cuarto donde haya una chimenea funcionando para impedir el contacto con el vidrio.**
- **Mantenga la ropa, mobiliario, gasolina y otros líquidos inflamables alejados de la chimenea.**
- **Aún después de haber apagado el gas, las superficies de la chimenea permanecen extremadamente calientes.**

- ☐ Asegúrese de colocar las **Etiquetas de advertencia de seguridad de operación** en el lugar donde enciende la chimenea, para que todos recuerden los peligros asociados con las altas temperaturas (**ver la página 5**).
- ☐ Lea la **Información importante** de seguridad en la **página 4**.

## Important Safety Information

1. **WARNING:** Do not operate appliance with the glass front removed, cracked or broken. Replacement of the glass should be done by a licensed or qualified service person .
2. Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.
3. Due to high temperatures, the appliance should be located out of traffic and away from furniture and draperies.
4. Children and adults should be alerted to the hazards of high surface temperature and should stay away to avoid burns or clothing ignition.
5. Clothing or other flammable material should not be placed on or near the appliance.
6. Young children should be carefully supervised when they are in the same room as the appliance. Toddlers, young children, and others may be susceptible to accidental contact burns. A physical barrier is recommended if there are at-risk individuals in the house. To restrict access to a fireplace or stove, install an adjustable safety gate to keep toddlers, young children, and other at-risk individuals out of the room and away from hot surfaces.
7. Any safety screen or guard removed for servicing an appliance must be replaced prior to operating the appliance.
8. Installation and repair should be done by a qualified service person. The appliance should be inspected before use and at least annually by a professional service person. More frequent cleaning may be required due to excessive lint from carpeting, bedding material, et cetera. It is imperative that control compartments, burners, and circulating air passageways of the appliance be kept clean. See maintenance instructions on page 11.

## L'information de sûreté importante

1. **AVERTISSEMENT.** Ne pas utiliser l'appareil si le panneau frontal en verre n'est pas en place, est craqué ou brisé. Confiez le remplacement du panneau à un technicien agréé
2. Ne pas utiliser cet appareil s'il a été plongé, même partiellement, dans l'eau. Appeler un technicien qualifié pour inspecter l'appareil et remplacer toute partie du système de commande et toute commande qui a été plongée dans l'eau.
3. En raison des températures élevées, l'appareil devrait être installé dans un endroit où il y a peu de circulation et loin du mobilier et des tentures.
4. Les enfants et les adultes devraient être informés des dangers que posent les températures de surface élevées et se tenir à distance afin d'éviter des brûlures ou que leurs vêtements ne s'enflamment.
5. On ne devrait pas placer de vêtements ni d'autres matières inflammables sur l'appareil ni à proximité.
6. Les jeunes enfants devraient être surveillés étroitement lorsqu'ils se trouvent dans la même pièce que l'appareil. Les tout petits, les jeunes enfants ou les adultes peuvent subir des brûlures s'ils viennent en contact avec la surface chaude. Il est recommandé d'installer une barrière physique si des personnes à risques habitent la maison. Pour empêcher l'accès à un foyer ou à un poêle, installez une barrière de sécurité ; cette mesure empêchera les tout petits, les jeunes enfants et toute autre personne à risque d'avoir accès à la pièce et aux surfaces chaudes.
7. Tout écran ou protecteur retiré pour permettre l'entretien de l'appareil doit être remis en place avant de mettre l'appareil en marche.
8. L'installation et la réparation devrait être confiées à un technicien qualifié. L'appareil devrait faire l'objet d'une inspection par un technicien professionnel avant d'être utilisé et au moins une fois l'an par la suite. Des nettoyages plus fréquents peuvent être nécessaires si les tapis, la literie, et cetera produisent une quantité importante de poussière. Il est essentiel que les compartiments abritant les commandes, les brûleurs et les conduits de circulation d'air de l'appareil soient tenus propres. Voyez les instructions d'entretien à la page 11.

[SPANISH]

## Información importante de seguridad

1. **ADVERTENCIA:** No opere el artefacto con el frente de vidrio quitado, agrietado o roto. Un técnico de servicio licenciado o capacitado debe reemplazar el vidrio.
2. No use este artefacto si alguna de sus partes ha estado bajo agua. Llame de inmediato a un técnico de servicio calificado para que inspeccione el artefacto y reemplace cualquier parte del sistema de control y cualquier control de gas que haya estado bajo agua.
3. Debido a las altas temperaturas, el artefacto debe situarse fuera de las áreas de tráfico y lejos del mobiliario y cortinas.
4. Se debe alertar a los niños y adultos sobre los peligros de las altas temperaturas en la superficie y que se mantengan alejados para evitar quemaduras o ignición de la ropa.
5. No debe colocarse ropa u otros materiales inflamables sobre y cerca del artefacto.

6. Se debe supervisar de cerca a los niños cuando estén en el mismo cuarto que el artefacto. Los niños pequeños, los jóvenes y otras personas pueden ser susceptibles a quemaduras por contacto accidental. Se recomienda instalar una barrera física si hay personas en riesgo en la casa. Para restringir el acceso a una chimenea o estufa, instale una puerta de seguridad ajustable para mantener a los niños pequeños, jóvenes y otras personas en riesgo fuera del cuarto y lejos de las superficies calientes.
7. Cualquier malla o resguardo de seguridad quitado para dar servicio a un artefacto, debe reinstalarse antes de operar el artefacto.
8. Una persona de servicio competente debe realizar la instalación y reparación. Una persona de servicio profesional debe inspeccionar el artefacto antes de usar al menos una vez por año. Se puede requerir limpieza más frecuente debido a la pelusa excesiva del alfombrado, del material de cobijas, etc. Es imprescindible mantener limpios los compartimientos de control, los quemadores y los pasajes de circulación del aire del artefacto. Ver las instrucciones de mantenimiento en la página 11.

## HOMEOWNER'S INSTRUCTIONS - ATTACHING SAFETY-IN-OPERATION WARNINGS

### ATTACHING SAFETY-IN-OPERATION WARNINGS

Your fireplace has been furnished with safety instruction labels that are to be affixed to the operation and control point of the fireplace. A safety instruction label should be affixed to the wall switch plate where the fireplace is turned on and off (*See Figure A*) and if used on the remote control handheld transmitter (*Figure B*). The warnings should already have been put in place when the fireplace initial set-up was completed. If they are not affixed at these spots, locate the multi-lingual adhesive labels provided with these instructions and proceed as follows:

1. Locate the wall switch that controls the fireplace (verify the switch operates the fireplace by turning it on and off). Clean the wall switch plate thoroughly to remove any dust and oils. Affix the label to the surface of the plate of the wall switch that controls the fireplace (*Figure A*). Choose the language primarily spoken in the home.
2. If a remote control is used to control the fireplace, locate the transmitter and clean it thoroughly to remove any dust and oils. Affix the label to the surface of handheld transmitter (*Figure B*). Choose the language primarily spoken in the home.
3. If you are unable to locate the labels, please call Lennox Hearth Products or your nearest Lennox Hearth Products dealer to receive additional safety instruction labels free of charge.

Cat. No. H8024 Replacement Label Kit

**LENNOX HEARTH PRODUCTS**  
**1-800-9-LENNOX**

*Note: English is red text on clear label. French and Spanish are white text on black label.*

### SAFETY LABEL DIAGRAMS



*Figure A*

### APPOSITION DES MISES EN GARDE RELATIVES À LA SÉCURITÉ D'UTILISATION

Votre foyer a été livré avec des étiquettes de sécurité qui doivent être collées à côté des dispositifs de contrôle du foyer. Une étiquette de sécurité devrait être collée sur la plaque de l'interrupteur contrôlant l'allumage du foyer (*voir Figure A*) et, le cas échéant, sur le boîtier de la télécommande (*Figure B*). Les mises en garde auraient dû être collées au moment de l'installation initiale du foyer. Si ce n'est pas le cas, prenez les étiquettes adhésives multilingues fournies avec ces instructions et procédez comme suit:

1. Repérez l'interrupteur qui contrôle le foyer (vérifiez que l'interrupteur contrôle le fonctionnement du foyer en le faisant basculer de Marche à Arrêt, et vice-versa). Nettoyez soigneusement la plaque murale de l'interrupteur pour éliminer la poussière et les traces de graisse ou d'huile. Collez l'étiquette sur la surface de la plaque de l'interrupteur mural qui contrôle le foyer (*Figure A*). Choisissez la langue qui est principalement parlée dans la résidence du propriétaire.
2. Si une télécommande est utilisée pour contrôler le foyer, nettoyez la soigneusement pour éliminer la poussière et les traces de graisse ou d'huile. Collez l'étiquette sur le boîtier de la télécommande (*Figure B*). Choisissez la langue qui est principalement parlée dans la résidence du propriétaire.
3. Si vous ne trouvez pas les étiquettes, veuillez appeler Lennox Hearth Products ou votre distributeur Lennox Hearth Products local pour recevoir gratuitement des étiquettes supplémentaires.

Étiquettes de remplacement, n° cat. H8024

**LENNOX HEARTH PRODUCTS**  
**1-800-9-LENNOX**

*Remarque : Le texte anglais est rouge sur un support transparent. Le texte français et espagnol est blanc sur un support noir.*

### DIAGRAMMES DES ÉTIQUETTES DE SÉCURITÉ



### COLOCACIÓN DE ADVERTENCIAS DE SEGURIDAD EN OPERACIÓN

Su chimenea incluye etiquetas de instrucciones de seguridad que deben colocarse en el punto de operación y control de la chimenea. Se debe colocar una etiqueta de instrucciones de seguridad en la placa del interruptor de pared desde el cual se enciende y se apaga la chimenea (*ver la Figura A*) y en el transmisor de control remoto (*Figura B*) si se usa. Las advertencias ya deben haberse colocado cuando se completó la instalación inicial de la chimenea. Si no están colocadas en estos lugares, encuentre las etiquetas adhesivas multilingües proporcionadas con estas instrucciones y prosiga de la siguiente manera:

1. Identifique el interruptor de pared que controla la chimenea (verifique que el interruptor opera la chimenea encendiéndola y apagándola). Limpie bien la placa del interruptor de pared para quitar el polvo y aceite. Pegue la etiqueta en la superficie de la placa del interruptor que controla la chimenea (*Figura A*). Seleccione el idioma que más se habla en la casa.
2. Si se usa un control remoto para controlar la chimenea, encuentre el transmisor y límpielo bien para quitar el polvo y aceite. Pegue la etiqueta en la superficie del transmisor (*Figura B*). Seleccione el idioma que más se habla en la casa.
3. Si no puede encontrar las etiquetas, sírvase llamar a Lennox Hearth Products o al distribuidor de Lennox Hearth Products más cercano para recibir etiquetas de instrucciones de seguridad adicionales gratuitas.

Juego de etiquetas de repuesto - N° de cat. H8024

**LENNOX HEARTH PRODUCTS**  
**1-800-9-LENNOX**

*Nota: La etiqueta en inglés es transparente con texto rojo. Las etiquetas en francés y español son negras con texto blanco.*

### DIAGRAMAS DE ETIQUETAS DE SEGURIDAD



*Figure B*



## General Information

The **Millivolt** appliances have a millivolt gas control valve with piezo ignition system.

The **Electronic** appliances have an electronic intermittent pilot ignition system. External electrical power is required to operate these units.

These appliances comply with National Safety Standards and are tested and listed by Omni-Test Laboratories (Report No. 116-F-27-5) to ANSI Z21.500 (in Canada, CSA 2.22), and CAN/CGA-2.17-M91 in both USA and Canada, as vented gas fireplaces.

The Installation must conform to local codes or, in the absence of local codes, with the National Fuel Gas Code, ANSI Z223.1/NFPA 54-latest edition, or the Natural Gas and Propane Installation Code, CAN/CSA B149.1-latest edition. The appliance, when installed, must be electrically grounded in accordance with local codes or, in the absence of local codes, the latest edition of the National Electrical Code, ANSI/NFPA 70, or the Canadian Electrical Code, CSA C22.1 - latest editions.

### WARNING

**B-Vent appliances are not designed to operate in negatively pressured environments (pressure within the home is less than pressures outside). Significant negatively pressured environments caused by weather, home design, or other devices may impact the operation of these appliances. Negative pressures may result in poor flame appearance, sooting, damage to property and/or severe personal injury. Do not operate these appliances in negatively pressured environments.**

These fireplaces are designed as supplemental heaters. Therefore, it is advisable to have an alternate primary heat source when installed in a dwelling.

These appliances must not be connected to a chimney or flue serving a separate solid fuel burning appliance.

## INSTALLATION, SERVICE, AND MAINTENANCE

**IMPORTANT: Improper installation, adjustment, alteration, service, or maintenance can cause injury or property damage. Refer to this manual.**

For assistance or additional information, consult a qualified installer, service agency or the gas supplier.

**Only trim kit(s) supplied by the manufacturer shall be used in the installation of this appliance.**

**Draft relief openings must not be covered or blocked.**

**These appliances must not be connected to a chimney or flue serving a separate solid fuel burning appliance.**

Any change to this appliance and/or its operating controls is dangerous. **Improper installation or use of this appliance can cause serious injury or death from fire, burns, explosion or carbon monoxide poisoning.**

**Carbon Monoxide Poisoning:** Early signs of carbon monoxide poisoning are similar to the flu with headaches, dizziness and/or nausea. If you have these signs, obtain fresh air immediately. Turn off the gas supply to the appliance and have it serviced by a qualified professional, as it may not be operating correctly. Some people are more affected by carbon monoxide than others, including pregnant women, people with heart or lung disease or anemia, those under the influence of alcohol, and those at high altitudes.

**Turn off gas and electrical power to the fireplace and allow it to cool before cleaning or servicing the appliance.**

## OPERATION

**Do not operate appliance with the glass front removed, cracked, or broken.**

These fireplaces are vented gas appliances. **Do not burn wood or other material in these appliances.**

**This appliance is only for use with the type of gas indicated on rating plate.**

This appliance is not convertible for use with other gases, unless a certified kit is used.

**These appliances are designed to operate on natural gas or propane gas only.** The use of other fuels or combinations of fuels will degrade the performance of this system and may be dangerous.

Provide adequate clearances around air openings and adequate accessibility clearance for service and proper operation. **Never obstruct the front openings of the appliance.**

**Do not use this appliance if any part has been under water.** Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control that has been under water.

## WARRANTY

**Failure to comply with the installation and operating instructions provided will result in an improperly installed and operating appliance, voiding its warranty.**

Do not attempt to alter or modify the construction of the appliance or its components. **Any modification or alteration may void the warranty, certification, and listings of this unit.**

## Millivolt Models - BTU Input

Millivolt models come standard with the manually-modulated gas valve; flame appearance and heat output can be controlled at the gas valve. Input of for these models is shown in **Table 1**.

Input (BTU) Manually-Modulated Gas Valves (millivolt models)		
Models	Fuel Type	Input Rate (BTU / HR)
MPB35ST-NM-B	Nat. Gas	30,000 high 23,000 low
MPB35ST-PM-B	Propane	28,000 high 22,000 low

**Table 1**

## Electronic Models -

Electronic models have a fixed rate gas valve. Input of electronic models is shown in **Table 2**.

Input (BTU) - Fixed Rate (electronic models)		
Models	Fuel Type	Input Rate (BTU / HR)
MPB35ST-NE-B	Nat. Gas	30,000
MPB35ST-PE-B (if field converted)	Pro. Gas	28,000

**Table 2**

## Gas Pressure -

**Tables 3 and 4** show the appliances' gas pressure requirements.

Inlet Gas Supply Pressure (all models)		
Fuel #	Minimum	Maximum
Natural Gas	5.0" WC (1.24 kPa)	10.5" WC (2.61 kPa)
Propane	11.0" WC (2.74 kPa)	13.0" WC (3.23 kPa)

**Table 3**

Manifold Gas Supply Pressure (all models)		
Fuel #	Low (millivolt only)	High
Natural Gas	(Lo) 2.2" WC (.55 kPa)	(Hi) 3.5" WC (.87 kPa)
Propane	(Lo) 6.3" WC (1.57 kPa)	(Hi) 10.0" WC (2.49 kPa)

**Table 4**

Test gauge connections are provided on the front of the millivolt gas control valve, identified IN for the inlet and OUT for the manifold side (see **Figure 2 on Page 9**). A 1/8" NPT Test gauge connection is provided at the inlet and outlet side of the electronic gas control valve (see **Figure 3 on Page 9**).

These appliances must be isolated from the gas supply piping system (by closing their individual manual shut-off valve) during any pressure testing of the gas supply piping system at test pressures equal to or **less than** 1/2 psig (3.5 kPa).

These appliances and their individual shut-off valves must be disconnected from the gas supply piping system during any pressure testing of that system at pressures **greater than** 1/2 psig (3.5 kPa).

## Orifice Sizes - Sea Level to High Altitude (All Models)

These appliances are tested and approved for installation at elevations of 0-4500 feet (0-1372 meters) above sea level using the standard burner orifice sizes (marked with an "\*" in **Table 5**). For elevations above 4500 feet, contact your gas supplier or qualified service technician.

**Deration** - At higher elevations, the amount of BTU fuel value delivered must be reduced by either:

- Using gas that has been derated by the gas company.
- Changing the burner orifice to a smaller size as regulated by the local authorities having jurisdiction and by the (USA) National Fuel Gas Code NFPA 54/ANSI Z223.1 - latest edition or, in Canada, the CAN/CSA-B149.1 codes - latest edition.

Install the appliance according to the regulations of the local authorities having jurisdiction and, in the USA, the National Fuel Gas Code NFPA 54 / ANSI Z223.1 - latest edition or, in Canada, the CAN/CSA-B149.1 - latest edition.

**NOTE:** Flame appearance will diminish 4% per thousand feet.

Burner Orifice Sizes (all models)		
Elevation Feet (meters)	Natural Gas drill size (inches)	Propane Gas drill size (inches)
0-4500 (0-1372)	#37 (.104") * 24M10 •	1.55 mm (.061")* 42M79 •

**Table 5**

\* Standard size installed at factory  
• Part/Cat. Number

## Burn-in Period

During the first few fires of this appliance there will be some odor due to the curing of the paint and burning off of lubricants used in the manufacturing process. Depending on your use, the burn-in period may take a few hours or a few days.

**KEEP YOUR HOUSE WELL VENTILATED DURING THE CURING PROCESS. THE ODOR AND HAZE EMITTED DURING THE CURING PROCESS CAN BE QUITE NOTICEABLE AND MAY SET OFF A SMOKE DETECTOR.**

A white film may develop on the glass front during the first few fires as part of the curing process. The glass should be kept clean during the first two weeks of use to prevent the film from baking on (making it very difficult to remove). See **Cleaning Glass on Page 11**.

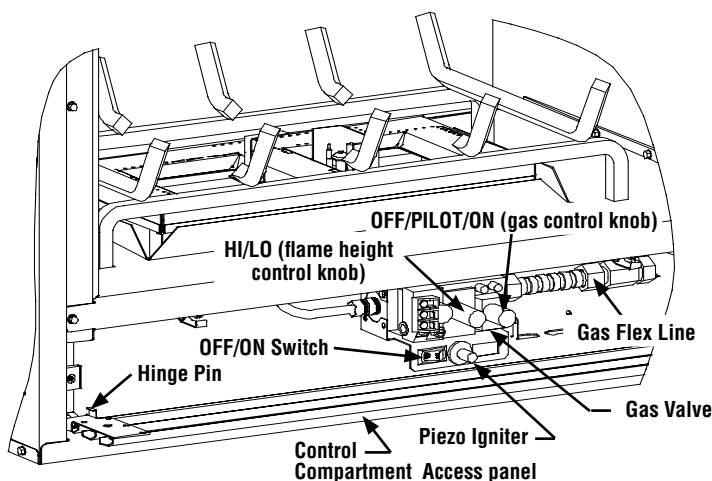
## OPERATION AND CARE OF YOUR APPLIANCE

### WARNING

Young children should be carefully supervised when they are in the same room as the appliance. Toddlers, young children and others may be susceptible to accidental contact burns. A physical barrier is recommended if there are at risk individuals in the house. To restrict access to a fireplace or stove, install an adjustable safety gate to keep toddlers, young children and other at risk individuals out of the room and away from hot surfaces.

### AVERTISSEMENT

Les jeunes enfants devraient être surveillés étroitement lorsqu'ils se trouvent dans la même pièce que l'appareil. Les tout petits, les jeunes enfants ou les adultes peuvent subir des brûlures s'ils viennent en contact avec la surface chaude. Il est recommandé d'installer une barrière physique si des personnes à risques habitent la maison. Pour empêcher l'accès à un foyer ou à un poêle, installez une barrière de sécurité; cette mesure empêchera les tout petits, les jeunes enfants et toute autre personne à risque d'avoir accès à la pièce et aux surfaces chaudes.



**Note:** The gas supply line must be installed in accordance with building codes by a qualified installer approved and/or licensed as required by the locality. In the Commonwealth of Massachusetts, installation must be performed by a licensed plumber or gas fitter.

**Figure 1 - Gas Control Compartment Access**

### Gas Controls/Control Compartment Access

The standard controls for appliance operation are located behind the hinged drop-down panel below the appliance front glass enclosure panel (see **Figure 1**). Optional control switches are also available (see **Page 18 - Remote Wall Switch or Remote Control**).

To open the control compartment access panel, actuate the spring-loaded magnetic catches securing the panel. First, depress the outer top right corner of the panel until the catch "pops" the door free. Then, gently pull the door forward until the left top corner "pops" free, allowing the panel to swing out and down to open.

To ease door closure, depress the catches to place them in their retracted position, then close the door.

On millivolt systems, the piezo igniter, HI/LO flame adjustment knob, and pilot and main gas OFF/ON control knob are located below the glass panel enclosure. The gas valve for electronic systems is also located below the glass enclosure panel. See **Figure 1**.

Operation of millivolt and electronic gas control systems are different. Before lighting and operating your appliance determine if you have a millivolt or electronic appliance. Familiarize yourself with the gas control valve that your appliance uses. Refer to **Figure 1** for access to the gas control valve.

**Millivolt Appliances** - Appliances with Millivolt systems will be fitted with the gas control valve shown in **Figure 2**.

**Electronic Appliances** - Appliances with electronic systems will be fitted with the electronic valve shown in **Figure 3**.

### Millivolt Appliances -

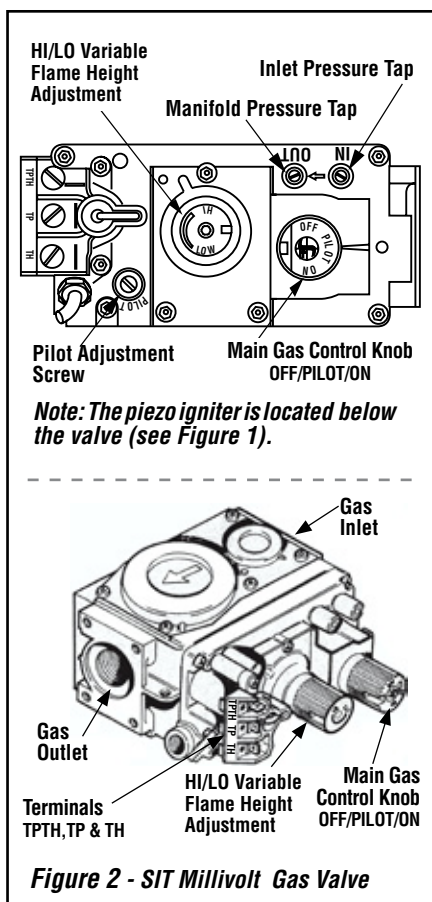
To light millivolt appliances refer to **Figure 1**. Detailed lighting instructions are found on **Pages 22 and 23**. Millivolt appliance lighting instructions may also be found on the pull out lighting instruction labels attached to the gas control valve.

Once the pilot is lit, the main burner may be turned ON and OFF using a wall switch, remote control, unit-mounted rocker switch, or wall thermostat. To operate: Toggle the switch between its ON and OFF positions.

If your millivolt appliance is equipped with an optional remote switch kit (wall switch or remote control) and the pilot is lit, the appliance main burner may be turned on and off using the optional switch. When using an optional remote switch, turn off the standard OFF/ON switch.

**Note:** To prevent excessive resistance in burner circuit (which can cause burner operation problems), only one burner control switch should be wired to valve.

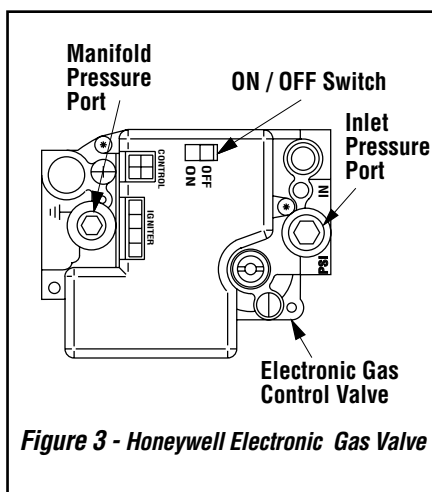




### Electronic Appliances -

To light electronic appliances refer to the detailed lighting instructions found on **Pages 24 and 25** of these instructions. Electronic appliance lighting instructions may also be found on the pull out lighting instruction labels attached to the gas control valve.

If your electronic appliance is equipped with an optional remote wall switch or remote control kit the appliance main burner may be turned on and off with the wall switch or remote control.



### Variable Flame Height Adjustment (Millivolt Appliances only)

All Millivolt appliances are equipped with a variable gas control valve. Flame height for these models may be adjusted through a range between fixed low and high settings while the appliance is in operation. Adjust the flame height as desired after lighting the appliance by rotating the variable adjustment control knob (HI/LO) located on the front of the valve (refer to **Figure 2**).

### VENT OPERATION TEST

A vent operation test is required as part of the installation to verify that proper venting conditions exist and should be done periodically to ensure nothing has changed that would affect proper venting of the appliance.

#### Procedure:

1. ENSURE APPLIANCE IS OFF (PILOT ONLY) AND COOL.
2. Open both latches on one of the glass enclosure doors and slightly prop it open at the bottom (approx. 1/4" gap). See **Figure 6 on Page 12**.
3. Turn on all the exhaust fans in the dwelling (and any other appliances which remove air from the dwelling, such as a furnace or clothes dryer, etc.).
4. Ensure that all the doors and windows in the room where the fireplace is located are closed.
5. Light the appliance (see *Lighting Instructions, Pages 22 to 25*). Adjust flame height to highest setting and operate for approximately 5-10 minutes. Do not leave appliance unattended.
6. Take a smoke producing device and move it along the bottom edge of the glass door (where it is cracked open). If smoke is drawn into the firebox, the vent operation is adequate.

**IF THE SMOKE IS NOT DRAWN INTO THE FIREBOX, TURN THE APPLIANCE OFF AND CALL A QUALIFIED SERVICE TECHNICIAN.**

### SPILL SWITCH OPERATION

#### Manual-Reset (safety limit) Spill Switch

This appliance is equipped with a (*safety limit*) spill switch that is designed to "trip" and disconnect the burner circuit if flue spillage occurs (because of improper venting of combustion products or vent blockage). If, during appliance operation, the burner flame goes out (independently of the burner OFF/ON wall switch), it may be due to the operation of this (*safety limit*) spill switch. If this switch "trips" it will need to be manually reset by pressing the reset button on switch (see **Figure 4**).

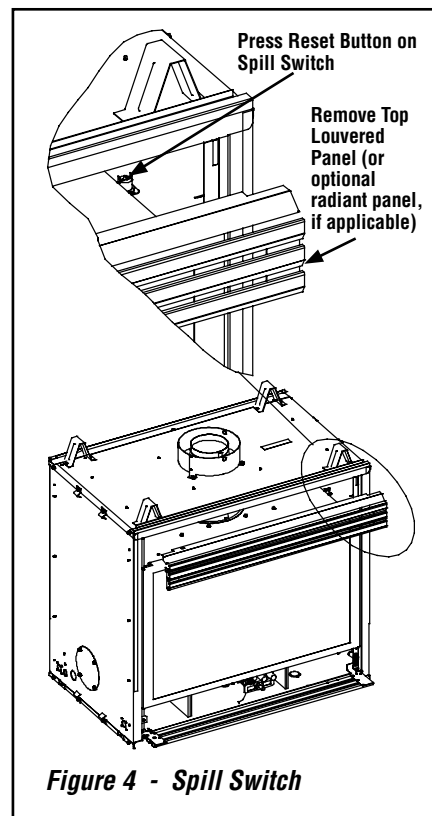
#### Procedure to Reset (safety limit) Spill Switch

#### ALLOW APPLIANCE TO COOL COMPLETELY BEFORE ACCESSING AND RESETTNG

#### To access the spill switch:

1. Pull off the top louvered panel.
2. Locate and press the red reset button on the switch (it will click & lock in).

The appliance should then relight and remain lit. If this does not occur, **turn off the appliance and call a qualified service technician.**



## Outside Combustion Air Controls

Many appliances are equipped, when installed, with an outside (make-up air) vent system that is designed to provide the appliance with outside make-up air for combustion when in operation.

The outside air control lever for the outside air system is standard on all appliances but should not be operated if the complete system is not installed. Refer to **Figure 5**. When the complete outside air vent system is installed, the installer will remove the securing screw from the combustion air control lever located on the right side of the fireplace opening.

If the securing screw has not been removed and you have reason to believe that you have a complete outside air system, contact your distributor to have your appliance inspected for the presence of the complete system. **DO NOT** assume that you have this system in place.

### **WARNING**

**Do not operate the shutoff lever unless a complete outside combustion air system has been installed with your appliance.**

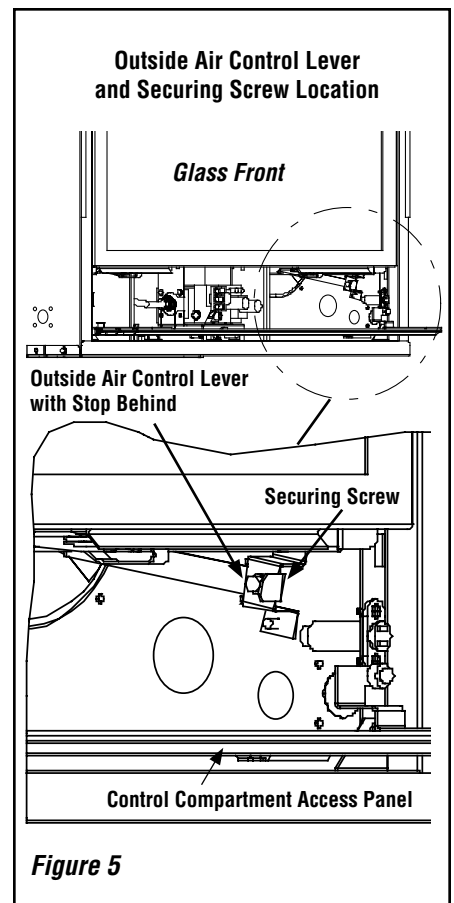
To open the outside air shutter, open the bottom control access panel, and pull the outside air control lever all the way out. The outside air shutter should be fully open when the fireplace is in use and completely closed when the fireplace is not being used. Closing it when not in use will prevent outside cold air from entering the dwelling.

The hand operated outside air control lever is located on the right side of the fireplace opening. **See Figure 5**.

To open the outside air, open the bottom control access panel, reach into the gap between the firebox bottom and pull the outside air control lever all the way out.

The outside air shutter should be fully open when the fireplace is in use and completely closed when the fireplace is not being used. Closing it when not in use will prevent outside cold air from entering the dwelling.

Operate the actuator through several cycles including the closed position. Ensuring proper operation and freedom of movement. Return the actuator arm to the closed position.



## MAINTENANCE

(See Maintenance Schedule, *Page 26*)

Refer to the maintenance schedule for maintenance tasks, procedures, frequency and by whom they should be performed. Always verify proper operation of the appliance after servicing.

### **WARNING**

**Turn off gas and electrical power to the fireplace and allow it to cool before cleaning or servicing the appliance.**

**CAUTION:** Wear gloves and safety glasses for protection while doing required maintenance.

**Verify proper operation after servicing.**

**S'assurer que l'appareil fonctionne adéquatement une fois l'entretien terminé.**

**Always turn off gas to the pilot (millivolt appliances) before cleaning. Before re-lighting, refer to the lighting instructions in this manual. Instructions are also found on a pull-out panel located in the control compartment.**

### Inspect Venting System

The appliance and venting system should be thoroughly inspected before initial use and at least annually by a qualified service technician (inspection should include ensuring that exhaust passage is unobstructed and vent components are properly assembled and not damaged). **Homeowner must contact a qualified service technician at once if any abnormal condition is observed.**

If the venting system is disassembled for any reason, a qualified service technician should follow vent installation instructions for proper reassembly and proper sealing of the venting system components. However, more frequent periodic inspections and cleanings should be performed by the homeowner.

### Cleaning Glass

(see *Front Glass Enclosure Panel, Removal and Installation* on *Page 10*)

**Note:** Clean glass after first two weeks of operation (after Burn-In period is over) and then only when necessary and when the fireplace is cool. Wipe surface with clean, dampened, soft cloth. Follow with a dry, soft towel as desired. Take care not to scratch the glass surface.

**IMPORTANT: Do not use abrasive cleaners on glass. Never clean the glass when it is hot.**

The viewing glass should be cleaned periodically to remove any build-up caused from the following:

- During start-up, it is normal for condensation to form on the inside of the glass (this condensation and fog will usually disappear in a few minutes). The moisture can cause lint, dust and other airborne particles to cling to the glass surface.
- Initial curing of the high temperature paint and burning off of lubricants used in the manufacturing process may result in a film on the glass.
- A white coating may form on the glass as a result of impurities and minerals in the fuel.

It is recommended that the glass be cleaned two or three times during each heating season, depending on the circumstances present. The following cleaning solutions are approved for use to clean glass:

- Non-ammonia based household cleaner
- 50%-50% mix of white vinegar and water
- Gas fireplace/stove glass cleaner

**Inspect Glass Gasket** - Visually inspect the gasket on the backside of the glass enclosure panels. The gasket surface must be clean, free of irregularities and seated firmly.

### Clean Control Compartment

Keep control compartment clean by vacuuming or brushing at least twice a year. More frequent cleaning may be required due to excessive lint from carpeting, bedding materials, etc. It is important that control compartments, burners and circulating air passageways of the appliance be kept clean.

### Clean Logs And Burner

Carefully remove the logs (use care when handling the fiber logs, as they become quite fragile after curing). Vacuum out any foreign matter (lint, carbon, etc.) on the burner. Ensure the burner ports are "open." Remove any carbon deposits from the under side of the logs using a vacuum cleaner, or a soft bristled brush (i.e. paint brush).

**Note:** Improper positioning of logs can create carbon build-up and will alter the performance of the appliance.

### Replacing Logs

If the logs become damaged by accident or improper handling and need replacement, use only the proper replacement logs from manufacturer (see *Page 29* for ordering information).

### Re-Install Embers, Logs and Vermiculite

Carefully follow placement instructions on *Pages 12 to 15*. All logs should fit onto corresponding pins and/or log stoppers. This will ensure a proper flame and safe combustion.

### Inspect Wiring

Refer to wiring diagrams on *Page 17*.

**CAUTION:** Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.

**ATTENTION:** Au moment de l'entretien des commandes, étiquetez tous les fils avant de les débrancher. Des erreurs de câblage peuvent entraîner un fonctionnement inadéquat et dangereux.

Inspect and clean all wire connections. Ensure that there is no melting or damage. Inspection should include:

- Terminals at the Valve
- OFF/ON Switch
- (Optional Control Switch) Remote Control or Remote Wall Switch Kit

### Inspect Burner Flame Appearance

Ensure that the burner flame appearance resembles the flame shown in *Figure 15* and as described in *Flame Appearance and Sooting* on *Page 15*. The Homeowner must contact a qualified service technician at once if any abnormal condition is observed.

### Small Area Paint Touch-up

Only use a factory supplied paint kit for touch-ups. Paint is available at your local authorized Lennox Hearth Products dealer. Never attempt to paint a hot fireplace.

If the surface later becomes stained or marred, it may be lightly sanded and touched up with spray paint.

## Front Glass Enclosure Panel, Removal and Installation

### **WARNING**

- Do not attempt to substitute the materials used on this door, or replace cracked or broken glass.
- Handle this glass with extreme care! Glass is susceptible to damage – Do not scratch or handle roughly while reinstalling the glass door frame.
- The glass door(s) of this appliance must only be replaced as a complete unit as provided by the manufacturer. Do not attempt to replace broken, cracked or chipped glass separately.
- Do not attempt to touch the front enclosure glass with your hands while the fireplace is in use.

### **WARNING**

Do not operate appliance with the glass front removed, cracked or broken.

### **AVERTISSEMENT**

Ne pas utiliser l'appareil si le panneau frontal en verre n'est pas en place, est craqué ou brisé.

### **WARNING**

Any safety screen or guard removed for servicing the appliance must be replaced prior to operating the appliance.

### **AVERTISSEMENT**

Tout écran ou protecteur retiré pour permettre l'entretien de l'appareil doit être remis en place avant de mettre l'appareil en marche.

Only doors certified with the appliance shall be used.

Seules des portes certifiées pour cet appareil doivent être utilisées.

**CAUTION: DO NOT** abuse glass door by striking or slamming shut.

These fireplaces are designed to operate only with the glass enclosure panels properly installed. Generally the glass enclosure panels should not be removed except to gain access to the components within the firebox, and the appliance may only be operated without the front glass enclosure panel in place for very brief periods of time during initial appliance checkout and adjustment.

### Removing Glass Enclosure Panels (see Figure 6)

1. Remove the top louver assembly or radiant panel by pulling it out and off.
2. Open the control compartment access panel by actuating the spring-loaded magnetic catches securing the panel (gently depress the outer top corners of the louvered or radiant panel until the catches "pop" the door free, allowing it to swing out and down to the open position).
3. Locate the two (2) latches at the top of the control compartment. To disengage the two latches from the bottom vee-flange of the glass enclosure panel, reach for the handles located towards the back of the latches and pull the handles down toward the front of the appliance.
4. Swing the bottom of the door out and raise it slightly to lift the top flange of the door frame away from the appliance.

### Installing Glass Enclosure Panels (see Figure 6)

1. Visually inspect the gasket on the backside of the panels. The gasket surface must be clean, free of irregularities and seated firmly.
2. Position the glass enclosure panel in front of the firebox opening at a 45 degree angle and engage the top flange over the lip at the top of the firebox opening. **See Figure 6.**
3. Swing the glass enclosure panel down and back. Ensure the gasket seats evenly as the panel draws shut. Engage the Vee-flange at the bottom of the panel with the latches and close the latches to secure the panel.
4. Close the bottom control compartment access panel.

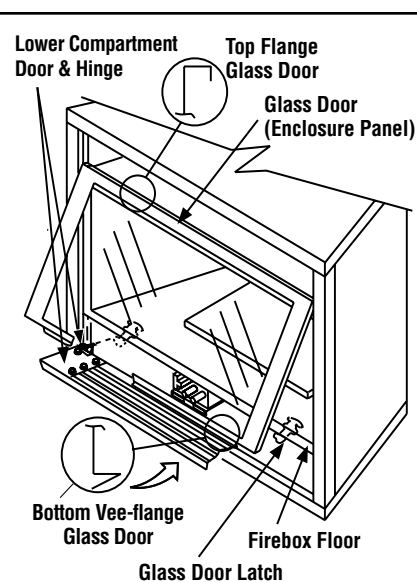


Figure 6

## Installing Grate, Vermiculite, Glowing Embers And Logs

### **WARNINGS**

- **DO NOT** attempt to install the logs until the appliance installation has been completed, the gas line connected and tested for leaks and the initial burner operation has been checked out.
- The size and position of the log set was engineered to give the appliance a safe, reliable and attractive flame pattern. Any attempt to use a different log set in the fireplace will void the warranty and will result in incomplete combustion, sooting, and poor flame quality.
- Logs get very hot and will remain hot up to one hour after gas supply is turned off. Handle only when logs are cool. Turn off all electricity to the appliance before you install grate, volcanic stone, vermiculite, embers and logs.

## LOG SET - IDENTIFICATION

LOG SET Catalog Number H3210	
* Item	Description
A	Log, Center
B	Log, Left Rear
C	Log, Left Front
D	Log, Right Rear
E	Log, Top Center
F	Log, Front Center

\* Item "letters" above correspond to photos on right

REFERENCE Firebox Accessories / Parts		
Cat. No.	Model No.	Description
88L53	FGE	Bag of Glowing Embers (1 oz. rockwool)
H6319		Vermiculite, Bag (2 liters)

### WARNING

- This appliance is not designed to burn wood. Any attempt to do so could cause irreparable damage to appliance and prove hazardous to your safety.
- If logs are not installed according to the log installation instructions, flame impingement and improper combustion could occur and result in soot and/or excessive production of carbon monoxide (CO), a colorless, odorless, toxic gas.

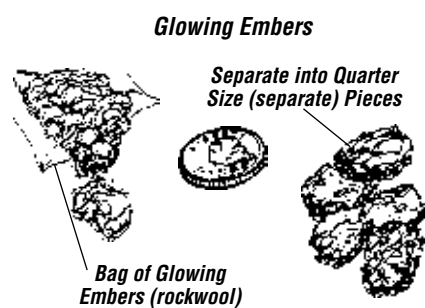
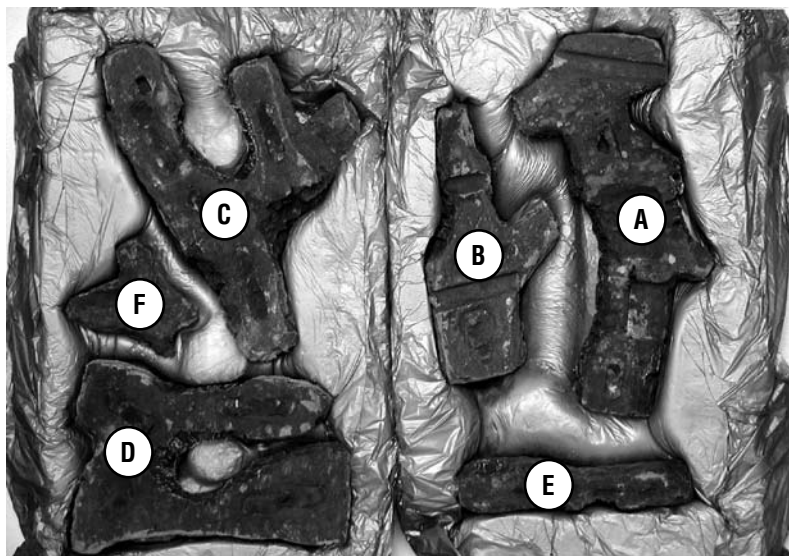
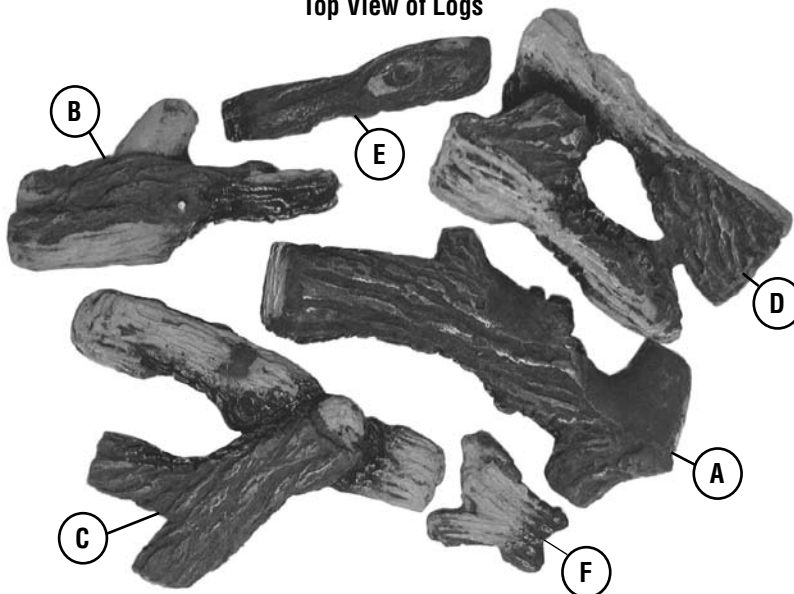


Figure 7

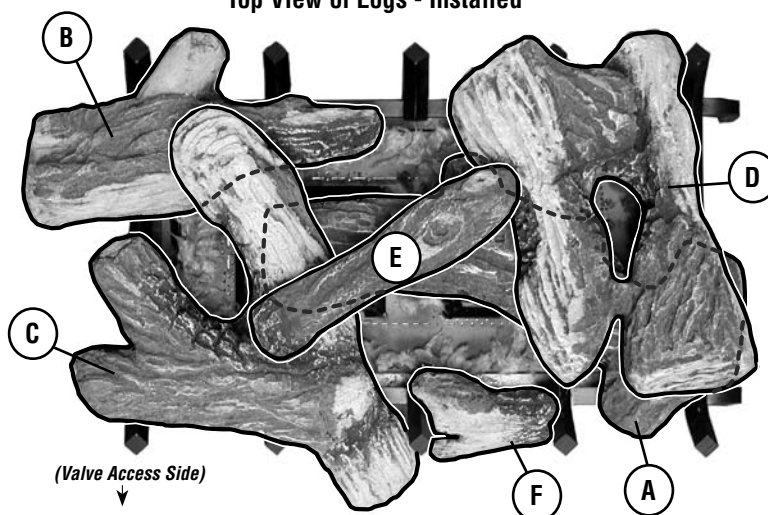
## Bottom View of Logs (in packaging)



## Top View of Logs



## Top View of Logs - Installed

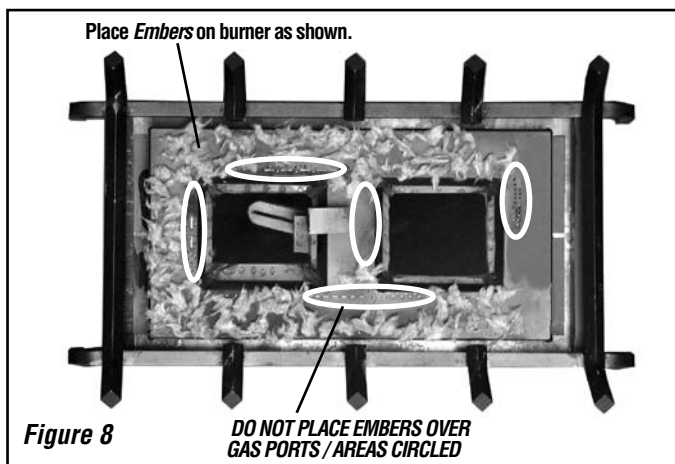




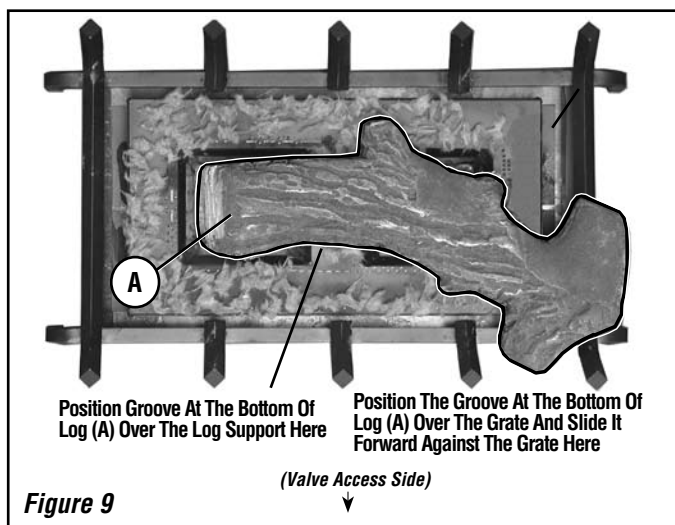
**READ LOG WARNINGS ON PAGE 12 BEFORE PROCEEDING**

1. **Remove front glass enclosure panel** from appliance.
  - a. Open Control Compartment Access Panel (see *Control Compartment Access Instructions* on **Page 8**).
  - b. Remove the glass panel enclosure (see *Removing Glass Enclosure Panel* instructions on **Page 12**).
2. **Remove the following from firebox**, log set, embers (rockwool) and vermiculite. **Handle logs carefully to prevent breakage.**
3. **Ensure the Grate is properly installed** in the firebox with the 4 legs of the grate fitting into the 4 dimples on the firebox floor.
4. **Install Vermiculite** - Place some vermiculite on the firebox floor around the grate (the entire bag of vermiculite will NOT be used). See **Figure 15 on Page 15**. **DO NOT PLACE ANY VERMICULITE ON THE BURNER.**
6. **Placement of Glowing Embers** - Separate the Embers (rockwool) into pieces about the size of a quarter (see **Figure 7**). Keep the pieces fluffed up, not matted. Distribute these pieces over the surface of the burner, as shown in **Figure 8**. Do not use more than is necessary. Ensure that the main burner ports remain uncovered by the ember material.

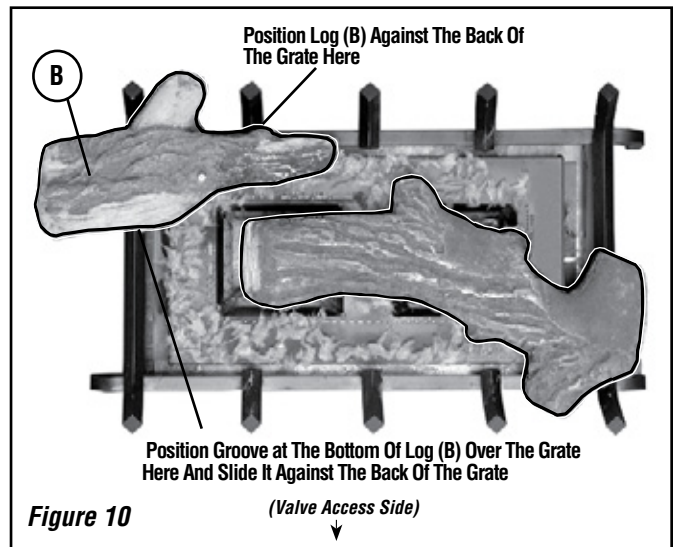
**Note:** This appliance is provided with enough Glowing Embers for several applications, do not use all that is in a new bag at one time. For best glowing effect, replace the ember material annually. Replacement Glowing Embers are available (order Catalog Number 88L53).



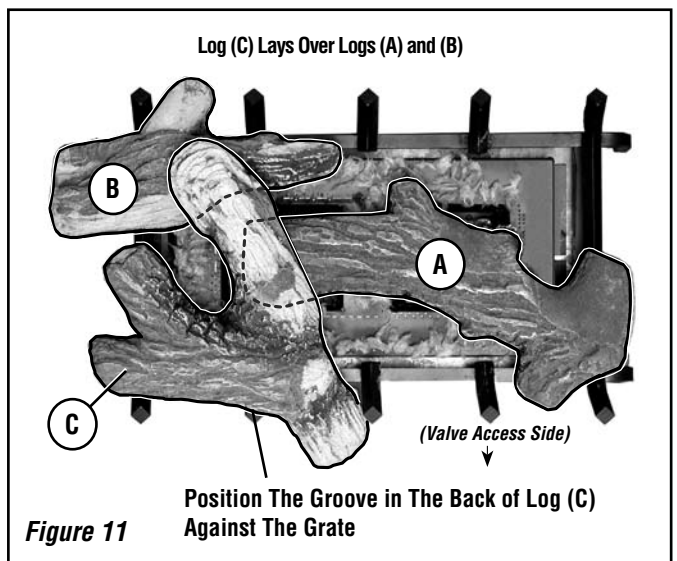
7. Place Log (A) on the grate as shown in **Figure 9**



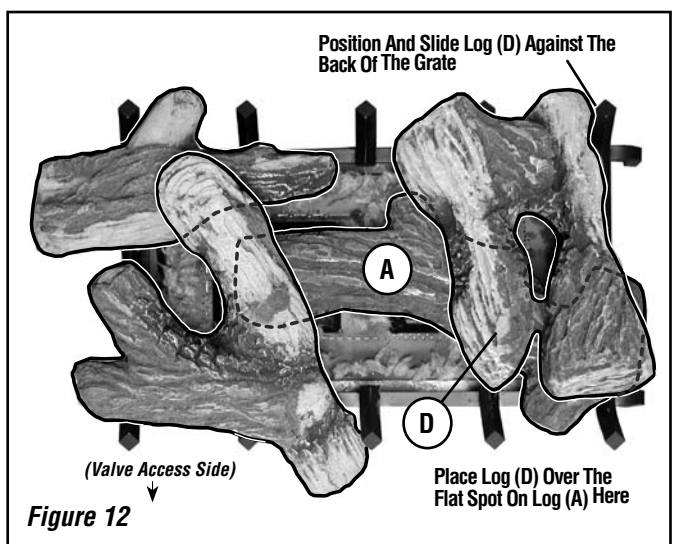
8. Place Log (B) as shown in **Figure 10**.



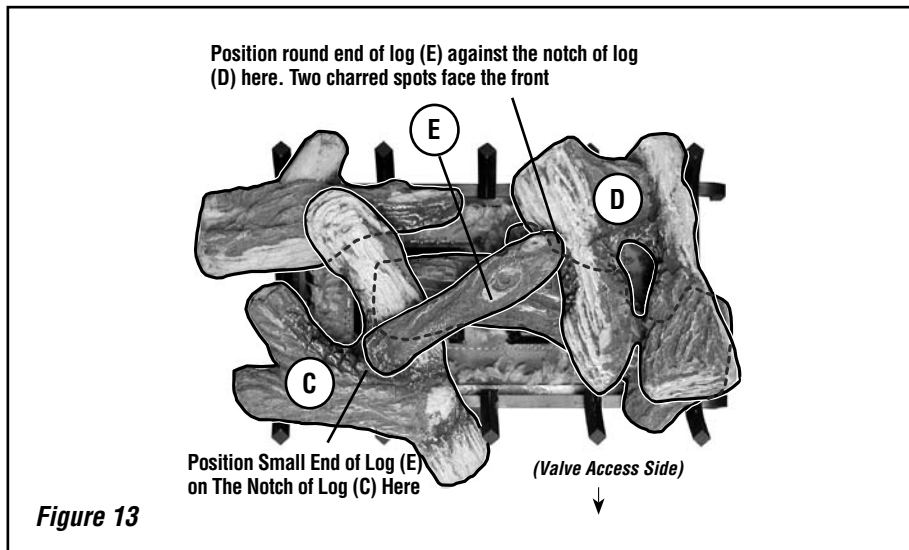
9. Place Log (C) as shown in **Figure 11**.



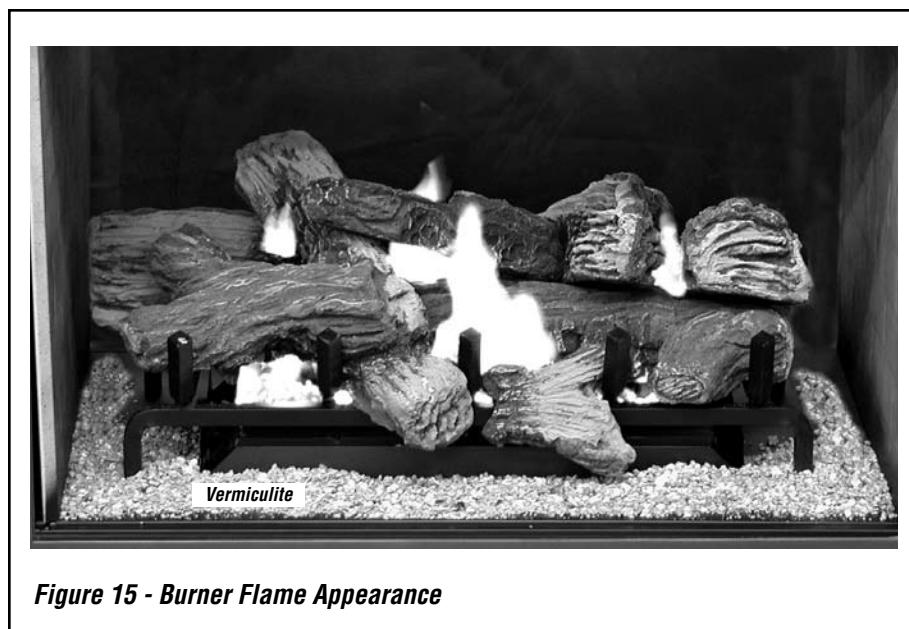
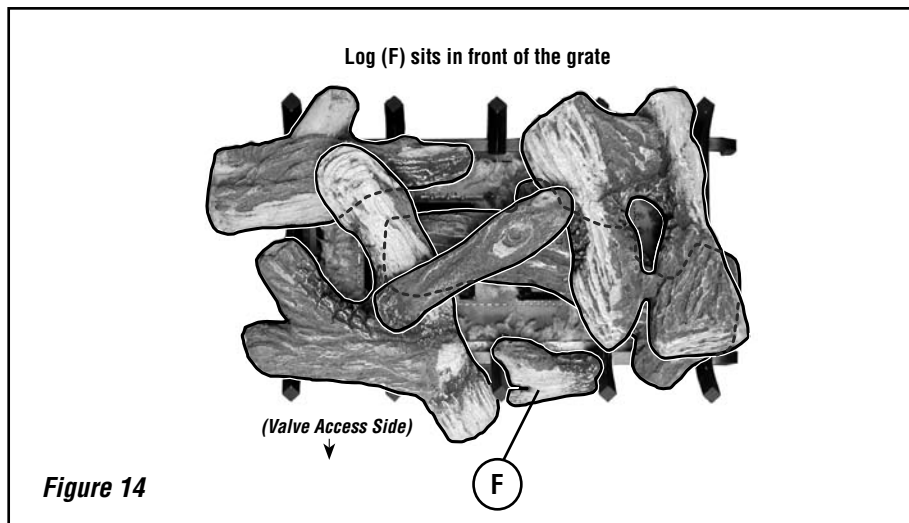
10. Place Log (D) as shown in **Figure 12**.



10. Place Log (E) as shown in **Figure 13**.



11. Place Log (F) as shown in **Figure 14**.



## BURNER ADJUSTMENTS (QUALIFIED TECHNICIANS ONLY)

### Flame Appearance and Sooting

Proper flame appearance is a flame which is blue at the base and becomes yellowish-orange in the body of the flame. When the appliance is first lit, the entire flame may be blue and will gradually turn yellowish-orange during the first 15 minutes of operation. After 15 minutes of operation, if the flame is blue, or if the flame is orange with evidence of sooting (black tip), the air shutter opening may need to be adjusted.

If the air shutter opening is closed too far, sooting may develop. Sooting is indicated by black puffs developing at the tips of very long orange flames. Sooting results in black deposits forming on the logs, appliance inside surfaces and on exterior surfaces adjacent to the vent termination.

Sooting is caused by incomplete combustion in the flames and lack of combustion air entering the air shutter opening. To achieve a warm yellowish-orange flame with an orange body that does not soot, the shutter opening must be adjusted between these two extremes.

### Air Shutter Adjustment Guidelines

- If there is smoke or soot present, first check the log set positioning to ensure that the flames are not impinging on any of the logs. If the log set is properly positioned and a sooting condition still exists, then the air shutter opening should be increased.
- If there are offsets in the vent system, the air shutter opening may need to be increased.
- An appliance operated with the air shutter opened too far, may have flames that appear blue and transparent. These weak, blue and transparent flames are termed anemic.
- Propane models may exhibit flames which candle or appear stringy. If this is present and persists, adjust the air shutter to a more open position, then operate the appliance for a few more minutes to ensure that the flame normalizes and the flames do not appear sooty.

The following chart is provided to aid you in achieving the correct air shutter adjustment for your installation.

Air Shutter Adjustment Guidelines:		
Amount of Primary Air	Flame Color	Air Shutter Adjustment
If air shutter is closed too far →	Flame will be orange →	Air shutter gap should be increased
If air shutter is open too far →	Flame will be blue →	Air shutter gap should be decreased

## Burner Air Shutter Adjustment Procedure

### ⚠ WARNINGS

- Air shutter adjustment should only be performed by a qualified professional service technician.
- Ensure front glass panel are in place and sealed during adjustment.

### ⚠ CAUTIONS

- Soot will be produced if the air shutter is closed too much. Any damage due to carboning resulting from improperly setting the air shutter is not covered under the warranty.
- The air shutter door and nearby appliance surfaces are hot. Exercise caution to avoid injury while adjusting flame appearance.

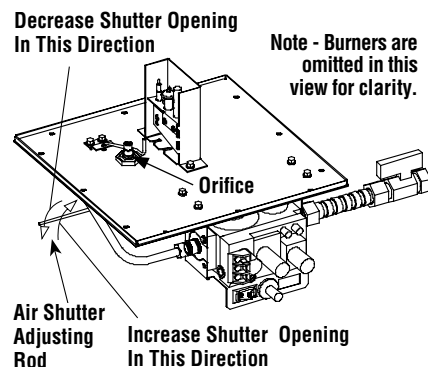
1. Locate adjustment rod and adjust air shutter to the standard setting as shown in **Figure 16** (adjustment rod is located in the lower control area). **Note:** Rotating the adjustment rod counterclockwise decreases air and clockwise increases air.
2. Light appliance (follow lighting procedure on lighting label in control compartment or see care and operation instructions manual).
3. Allow the burner to operate for at least 15 minutes while observing the flame continuously to ensure that the proper flame appearance has been achieved (see **Figure 15**). If the following conditions are present, adjust accordingly.
  - If flame appears weak or sooty, adjust the air shutter, incrementally, to a more open position until the proper flame appearance is achieved.
  - If flame stays lowered blue, adjust the air shutter, incrementally, to a more closed position until the proper flame appearance is achieved.
4. Leave the control knob (off/pilot/on) in the ON position and the burner OFF/ON switch OFF (and remote switches, if applicable).
5. When satisfied that the burner flame appearance is normal, close the lower control compartment door.

Main Burner Factory Air Shutter Opening Setting - All Models		
Model	Natural Gas	Propane Gas
MPB35ST	1/8" 3.2mm	1/4" 6.4mm

Ref. Air shutter Patent:  
U.S. Pat. 5,553,603

Adjustment Rod Positions  
(when viewed from above)

**Figure 16**

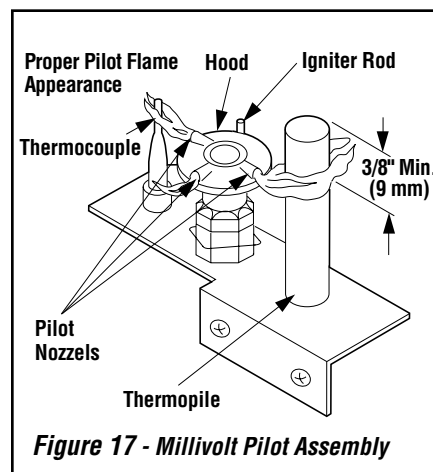


## Millivolt Appliance Checkout

The pilot flame should be steady, not lifting or floating. Flame should be blue in color with traces of orange at the outer edge.

The top 3/8" (10 mm) at the pilot generator (thermopile) and the top 1/8" min (tip) of the quick drop out thermocouple should be engulfed in the pilot flame. The flame should project 1" (25 mm) beyond the hood at all three ports. See **Figure 17**.

To light the burner, refer to the lighting instructions on **Page 22**.

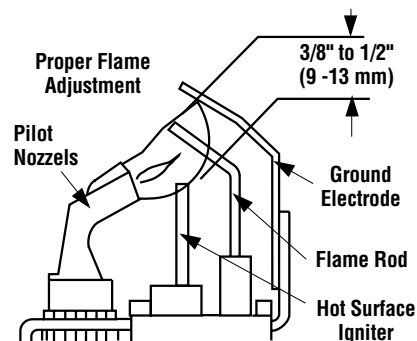


**Figure 17 - Millivolt Pilot Assembly**

## Electronic Appliance Checkout

To light the burner, refer to the lighting instructions on **Page 24**. Ensure the igniter lights the pilot. The pilot flame should engulf the flame sensor as shown in **Figure 18**.

### Proper Pilot Flame Appearance



**Figure 18 - Electronic Pilot Assembly**



## WARRANTY

Your gas appliance is covered by a limited twenty year warranty. You will find a copy of the warranty accompanying this manual. Please read the warranty to be familiar with its coverage.

Retain this manual. File it with your other documents for future reference.

## REPLACEMENT PARTS

A complete parts list is found at the end of this manual. Use only parts supplied from the manufacturer.

With proper care and maintenance, your appliance will provide many years of enjoyment. If you should experience any problem, first refer to the troubleshooting guide in this manual. If problem persists, contact your Lennox Hearth Products dealer or distributor.

Normally, all parts should be ordered through your Lennox Hearth Products distributor or dealer. Parts will be shipped at prevailing prices at time of order.

When ordering repair parts, always give the following information:

1. The model number of the appliance.
2. The serial number of the appliance.
3. The part number.
4. The description of the part.
5. The quantity required.
6. The installation date of the appliance.

If you encounter any problems or have any questions concerning the installation or application of this system, please contact your dealer or distributor.

**LENNOX HEARTH PRODUCTS**  
1508 Elm Hill Pike, Suite 108  
Nashville, TN 37210  
visit us at [www.Lennox.com](http://www.Lennox.com)  
1-800-9-LENNOX

## PRODUCT REFERENCE INFORMATION

We recommend that you record the following important information about your fireplace. Please call Lennox Hearth Products for the phone number of your nearest Lennox Hearth Products dealer who will answer your questions or address your concerns.

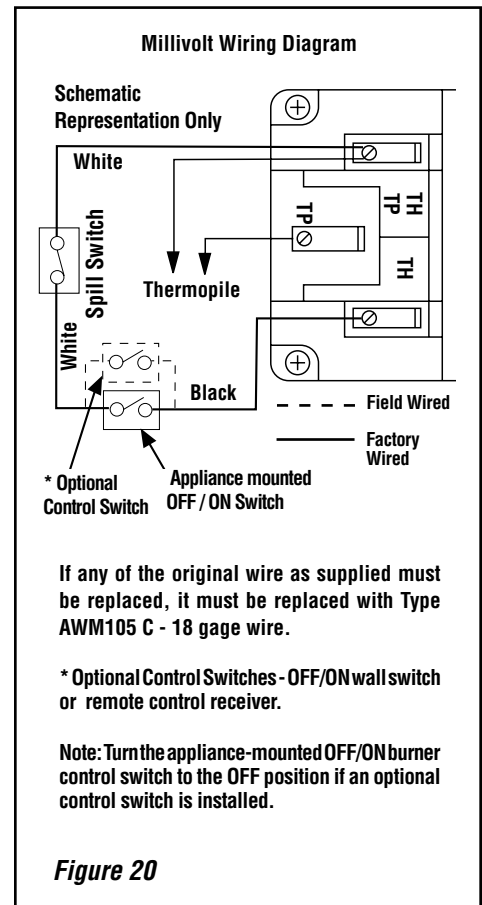
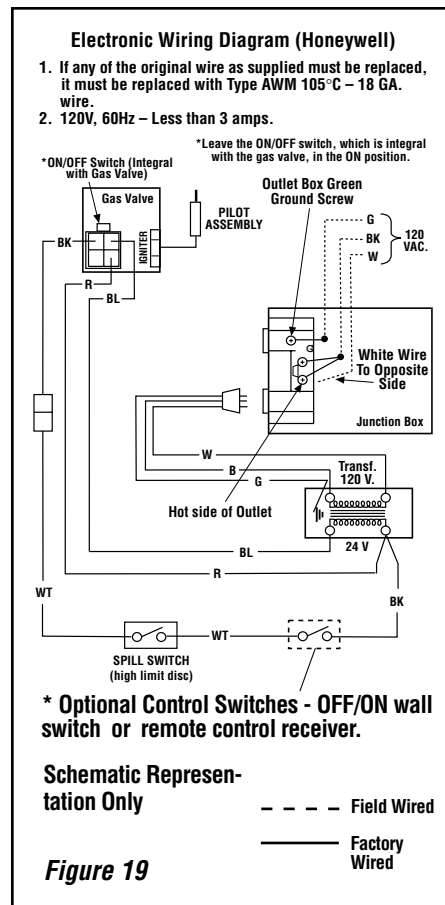
Your Fireplace's Model Number \_\_\_\_\_  
Your Fireplace's Serial Number \_\_\_\_\_  
The Date On Which Your Fireplace Was Installed \_\_\_\_\_  
The Type of Gas Your Fireplace Uses \_\_\_\_\_  
Your Dealer's Name \_\_\_\_\_

## WIRING DIAGRAMS

Wiring diagrams are provided here for reference purposes only. This information is also provided on schematics attached directly to the appliance on a pullout panel located within the control compartment.

**CAUTION: LABEL ALL WIRES PRIOR TO DISCONNECTION WHEN SERVICING CONTROLS. WIRING ERRORS CAN CAUSE IMPROPER AND DANGEROUS APPLIANCE OPERATION.**

**ATTENTION : AU MOMENT DE L'ENTRETIEN DES COMMANDES, ÉTIQUETEZ TOUS LES FILS AVANT DE LES DÉBRANCHER. DES ERREURS DE CÂBLAGE PEU-VENT ENTRAÎNER UN FONCTIONNEMENT INADÉQUAT ET DANGEREUX.**



## ACCESSORY COMPONENTS

Product Reference Information			
Cat. No.	Model	Ship. Weight	Ship. Volume
H7808	MPB35ST-NM-B	220 lbs	46W x 26D x 43H (30 cu.ft.)
H7809	MPB35ST-PM-B	220 lbs	46W x 26D x 43H (30 cu.ft.)
H7810	MPB35ST-NE-B	220 lbs	46W x 26D x 43H (30 cu.ft.)



Remote Control Kit, Standard		
Cat. No.	Model No.	Description
H0249	RCL	Remote Control System (Standard)

(ref. Form # 750,127M)

### Standard Remote Control System

The Model RCL (Standard) Remote Control System, features a simplistic OFF/ON control function for the fireplace. This model includes a hand-held transmitter, a remote receiver with wall-mount cover plate and all hardware required to install the unit. The remote receiver can be wall or hearth mounted.

The transmitter has ON and OFF functions that are activated by pressing either button on the face of the transmitter. When a button on the transmitter is pressed, a signal light illuminates briefly to verify that a signal has been sent.

The Model RCL is designed to operate with all millivolt ignition systems, as well as electronic ignition systems. It may be installed with use for either natural or propane gas appliances. The RCL offers ease of installation and allows you to execute on-off commands to the fireplace effortlessly with one simple motion.

The Model RCL comes complete with detailed operating instructions.

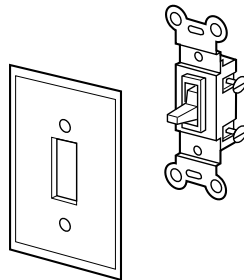


### Bag of Glowing Embers Bag of Volcanic Stone

Replacement ember materials or volcanic stone are available for use with these appliances. Order kits as part of the periodic maintenance of the appliance.

Decorative Firebox Accessories		
Cat. No.	Model No.	Description
88L53	FGE	Bag of Glowing Embers (1 oz. rockwool)
80L42	FDVS	Bag of Decorative Volcanic Stone

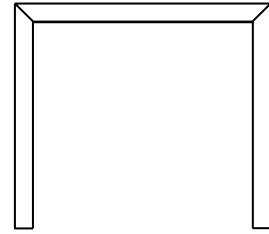
(FDVS ref. Form #750,010M)



White Wall Switch Kit		
Cat. No.	Model No.	Description
85L87	FWSK	OFF/ON Wall Switch Kit

### OFF/ON Wall Switch Kit

The OFF/ON wall switch kit may be used to control the operation of the fireplace burner. Install the OFF/ON wall switch in a convenient location near the fireplace.

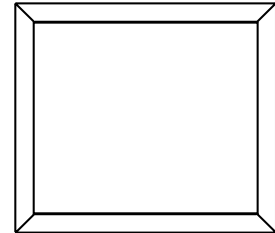


3 Piece Finished Trim Kit		
Cat. No.	Model No.	Description
96K21	TK35PB3	35", Polished Brass
H4821	TK35C3	35", Black

(ref. Form # 750,147M)

### Polished Brass 3-Piece Trim Kit

This kit contains brass trim pieces used to finish the gaps between the wall board and the fireplace, providing the appliance a brass perimeter highlight. This kit contains the trim pieces and these instructions.



4 Piece Trim Kit		
Cat. No.	Model No.	Description
96K17	TK35PB4	35" 4 Piece Finish Trim Kit, Polished Brass

(ref. Form # 750,147M)



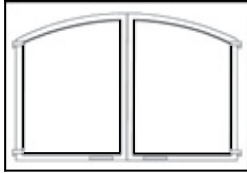
Touch-Up Paint Kits		
Cat. No.	Model No.	Description
90L73	FTPK-B	Touch-Up Paint (Black)

(TPK-C ref. Form # 504,216M)

### Touch-Up Paint Kit

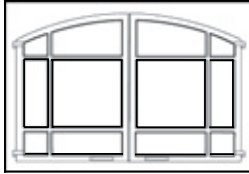
Repair of minor scratches and discoloration of the appliance black painted surfaces may be accomplished with the touch-up paint kit.

## ACCESSORY COMPONENTS

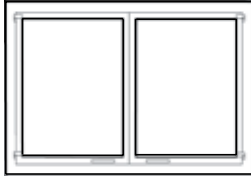


Arch  
Design

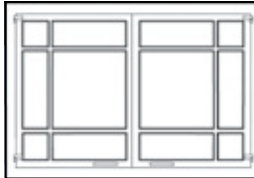
Arch Pane  
Design



Square  
Design



Square  
Pane  
Design



### Style View Screen Doors -

These Style View screen doors come in 4 beautiful styles. They are easy to install and will not require hardware to attach them to the standard glass door frame. The screens prevent direct contact with the hot glass surface. The door includes heavy duty magnet door latches and functional twin-pane screen doors.

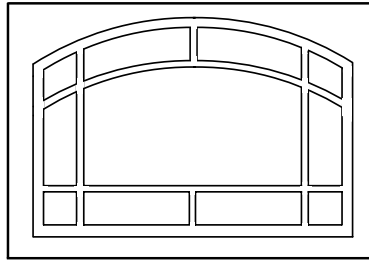
Arch Pane Design Kits		
H0930	APD35C	35" Arch Pane Doors, Black
H0931	APD35TI	35" Arch Pane Doors, Text. Iron
H0932	APD35SP	35" Arch Pane Doors, Satin Pew.
H0933	APD35AB	35" Arch Pane Doors, Ant. Brass

Arch Design Kits		
Cat. No.	Model	Description
H0858	AD35C	35" Arch Doors, Black
H0859	AD35TI	35" Arch Doors, Textured Iron
H0860	AD35SP	35" Arch Doors, Satin Pewter
H0861	AD35AB	35" Arch Doors, Antique Brass

Square Design Kits		
Cat. No.	Model	Description
H0946	SD35C	35" Sq. Doors, Black
H0947	SD35TI	35" Sq. Doors, Textured Iron
H0948	SD35SP	35" Sq. Doors, Satin Pewter
H0949	SD35AB	35" Sq. Doors, Antique Brass

Square Pane Design Kits		
H0962	SPD35C	35" Sq. Pane Doors, Black
H0963	SPD35TI	35" Sq. Pane Doors, Text. Iron
H0964	SPD35SP	35" Sq. Pane Doors, Satin Pew.
H0965	SPD35AB	35" Sq. Pane Doors, Ant. Brass

(ref. Form # 775,169M)

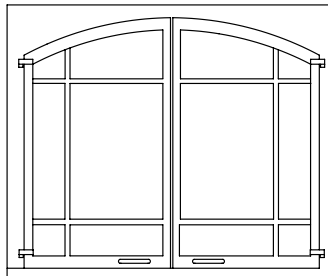


### Decorative Arch Screen Panel Kit

This easy to install optional screen installs over the standard glass enclosure panel to provide protection from direct contact with the hot glass surface. These screen panels cannot be used in conjunction with the arch door kits or door frame kits.

Decorative Arch Screen Panel Kit		
Cat. No.	Model	Model
H3593	DASPK35TI	35" Dec. Arch Screen Panel

(ref. Form # 750,199M)

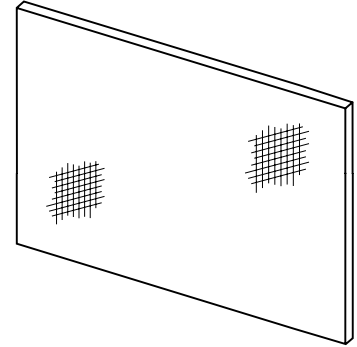


### Tall Style View Doors

These decorative screen doors are offered in four attractive finishes and fit on the face of the appliance over the glass doorframe and prevent direct contact with the hot glass surface. These doors replace the bottom louver assembly and cover the control compartment which elongates the appearance of the height of the fireplace face.

Style View Tall Arch 35" Pane Screen Door Kits		
Cat. No.	Model	Description
H3525	TAPD35C	Arch Pane, Black
H3527	TAPD35SP	Arch Pane, Satin Pewter

(ref. Form # 750,200M)

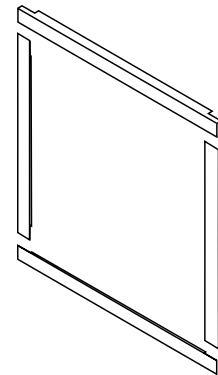


35" Screen Heat Guard Kit		
Cat. No.	Model No.	Description
26M48	HG35M	35" Screen Heat Guard Kit

(ref. Form # 750,101M)

### Screen Heat Guard Kit

This easy to install optional screen heat guard installs over the standard glass enclosure panel to prevent contact with the hot glass surface. These screen heat guard panels **cannot** be used in conjunction with the arch door kits or door frame kits. Order 2 if a set is desired (for front face and rear face glass surfaces).



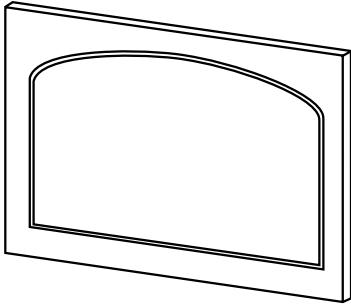
4 Piece Door Trim Kits		
Cat. No.	Model No.	Description
26M82	4DFK35PB	Door Trim, Polished Brass
26M85	4DFK35BS	Door Trim, Brushed Stainless

(ref. Form # 750,098M)

### Door Frame Kits

A decorative door frame kit is available for use with these appliances. It is designed to attach directly to the front face of the appliance at the four edges of the glass enclosure panel resulting in the appearance of a picture frame.

## ACCESSORY COMPONENTS

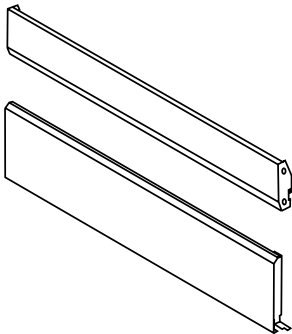


* 35" Arch Door Kits		
Cat. No.	Model No.	Description
26M43	ADK35CMPB	Arch Door, Polished Brass
26M44	ADK35CMBS	Arch Door, Brushed Stainless

(ref. Form # 750,021M)

### Arch Door Kits

Two types of arch door kits are available for the Multi-Open Series. Both types of kits are easy to install and do not require hardware to attach them to the standard door frame. These kits can be retrofitted to previously installed Multi-Open Series appliances. The decorative arch kits can not be used in conjunction with the screen panel kit.

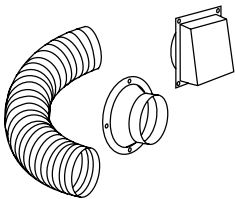


Clean Face Black Radiant Panel Kits		
Cat. No.	Model No.	Description
88L36	RAD35C-2	Clean Face Panel Kit

(ref. Form # 504,223M)

### Clean Face Panel Kits

Clean faced panel kits are available to convert the standard louvered fireplaces to radiant models which are more suited for finishing around the firebox opening with non-combustible materials, such as tile.

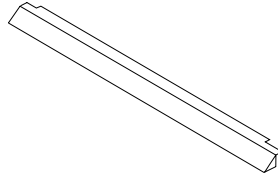


Outside Combustion Air Kits		
Cat. No.	Model No.	Description
81L87	FOAK-4	Combustion Air Kit (with duct)
81L88	FOAK-4LD	Combustion Air Kit (without duct)

(ref. Form # 750,008M)

### Outside Air Kits Models FOAK-4 and FOAK-4LD

Outside Air kits are available with duct (FOAK-4) and without duct (FOAK-4LD) for use if outside combustion air is required or desired. If model FOAK-4LD is used it must be used in conjunction with locally purchased, non-combustible Class 1 or Class 0 flexible duct.



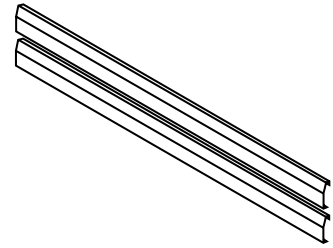
* 35" Eyebrow Hood Kits		
Cat. No.	Model No.	Description
96K67	EB35PB	Hood Kit, Polished Brass
88L49	EB35BS	Hood Kit, Brushed Stainless

\* These hood kits replace the standard hood that comes with these fireplaces.

(ref. Form #504,142M)

### Polished Brass and Brushed Stainless Hood Kits

Attractive hoods are available in two styles to be used on the Multi-Open Series appliances. These hoods are designed to be fitted to the glass viewing sides of the appliance. In addition to providing an aesthetically pleasing appearance to your appliance installation, the hood reduces heat effects to decorative mantles and finish materials located above the fireplace opening. The hood kit replaces the standard hood that comes with these appliances and snaps into place. These kits can be retrofitted to previously installed appliances.

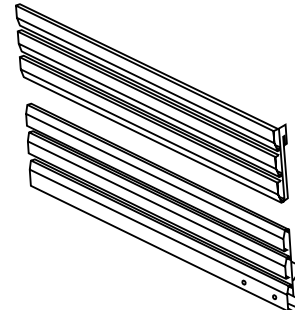


2-Piece Louver Kits		
Cat. No.	Model No.	Description
96L05	2LVR35PB	2 Pc. Louver Kit, Polished Brass
96L09	2LVR35BS	2 Pc. Louver Kit, Brushed Stainless

(ref. Form # 504,224M))

### 2-Piece Polished Brass and Brushed Stainless Louvers Kits

These louvers are designed to replace either the middle black louver of each set or the black louver in each set closest to the glass door. These kits include two narrow louvers. They provide a touch of elegance to these appliances. These kits can be retrofitted to previously installed appliances.



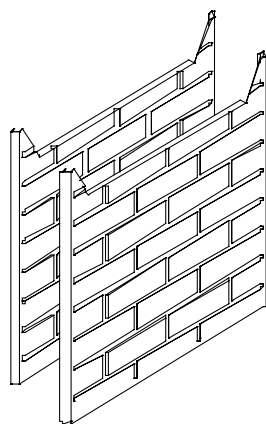
35" Assembled Louver Kits		
Cat. No.	Model No.	Description
88L28	LVR35PB-2	Louver Kit, Polished Brass
88L32	LVR35BS-2	Louver Kit, Brushed Stainless

(ref. Form # 750,119M)

### Polished Brass and Brushed Stainless Louvers Kits

Decorative louvers are available for use with all Multi-Open Series appliances. These louvers are designed to replace the standard radiant panels that are provided with the appliance. These kits include a top 3-piece assembly and a bottom 3-piece assembly. They provide a touch of elegance to any Multi-Open Series appliance. These kits can be retrofitted to previously installed appliances.

ACCESSORY COMPONENTS



Brickaded Wall Liner Kits		
Cat. No.	Model No.	Description
H3207	MBLK-35ST	Interior Brick Liner Kit

(ref. Form # 750,160M)

Brickaded Panel Liner Kit

The brickaded liner kits include ceramic panels as shown here. The panels have brick-like features in relief.

*Sunrise Style (upper grille shown)*



*Crescent Style (lower grille shown)*



Cat. No.#	Model	Description	Model Series
H3565	SUGK35C	35" Black	UPPER GRILLE KITS SUNRISE
H3567	SUGK35SP	35" Satin Pewter	

H3541	CUGK35C	35" Black	UPPER GRILLE KITS CRESCENTS
H3543	CUGK35SP	35" Satin Pewter	

H3569	SLGK35C	35" Black	LOWER GRILLE KITS SUNRISE
H3571	SLGK35SP	35" Satin Pewter	

H3545	CLGK35C	35" Black	LOWER GRILLE KITS CRESCENTS
H3547	CLGK35SP	35" Satin Pewter	

(ref. Form # 750,202M)

Decorative Grille Kits

These decorative grilles are offered in two attractive finishes and fit on the face of the appliance in place of the standard louvers.

## LIGHTING INSTRUCTIONS – MILLIVOLT GAS VALVE

### FOR YOUR SAFETY READ BEFORE LIGHTING

**WARNING: IF YOU DO NOT FOLLOW THESE INSTRUCTIONS EXACTLY, A FIRE OR EXPLOSION MAY RESULT CAUSING PROPERTY DAMAGE, PERSONAL INJURY OR LOSS OF LIFE.**

- A.** This appliance has a pilot which must be lit with a piezo igniter. When lighting the pilot, follow these instructions exactly.
- B. BEFORE LIGHTING** smell all around the appliance area for gas. Ensure to smell next to the floor because some gas is heavier than air and will settle on the floor.

#### WHAT TO DO IF YOU SMELL GAS

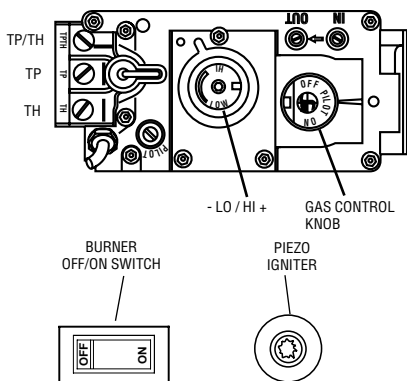
- Do not try to light any appliance.
  - Do not touch any electric switch; do not use any phone in your building.
  - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
  - If you cannot reach your gas supplier, call the fire department.
- C.** Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, do not try to repair it, call a qualified service technician. Force or attempted repair may result in a fire or an explosion.
- D.** Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

### LIGHTING INSTRUCTIONS

1. **STOP!** Read the safety information above on this page.
2. Access the lower control compartment.
3. Turn OFF/ON switch to "OFF" (and remote wall switch, if applicable).
4. Verify main line shut-off valve is open.
5. Push in gas control knob slightly and turn clockwise to "OFF."



SIT Millivolt Gas Valve

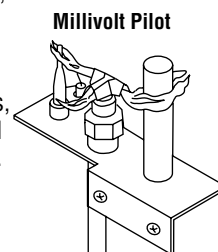


**Note:** Knob cannot be turned from "PILOT" to "OFF" unless the knob is pushed in slightly. Do not force.

6. Wait five (5) minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, STOP! Follow "B" in the safety information above (to the left) on this label. If you don't smell gas, go to the next step.
7. Push in gas control knob slightly and turn counterclockwise to "PILOT."
8. Push in control knob all the way and hold in. Immediately light the pilot by triggering the spark igniter (pushing the button) until pilot lights. Continue to hold the control knob in for about 1-1/2 minutes after the pilot is lit. Release knob and it will pop back up. Pilot should remain lit. If it goes out, repeat steps 5 through 8.

- If knob does not pop up when released, stop and immediately call your service technician or gas supplier.
- If pilot will not stay lit after several tries, turn the control knob to "OFF" and call your service technician or gas supplier.

9. Turn gas control knob counterclockwise to "ON."
10. Close lower control compartment.
11. If the appliance will not operate, follow the instructions "To Turn Off Gas To Appliance" and call your service technician or gas supplier.



### TO TURN OFF GAS TO APPLIANCE

1. Turn remote wall switch "OFF." The pilot will remain lit for normal service.
2. For complete shutdown, turn remote wall switch to "OFF."
3. Access the lower control compartment.
4. Depress gas control knob slightly and turn clockwise to "OFF." Do not force.
5. Close lower control compartment.



NOTE: DIAGRAMS & ILLUSTRATIONS ARE NOT TO SCALE.

## INSTRUCTIONS D'ALLUMAGE – VANNE GAZ MILLIVOLT

### POUR PLUS DE SÉCURITÉ, LIRE AVANT D'ALLUMER

**AVERTISSEMENT. QUICONQUE NE RESPECTE PAS À LA LETTRE LES INSTRUCTIONS DANS LA PRÉSENTE NOTICE RISQUE DE DÉCLENCHER UN INCENDIE OU UNE EXPLOSION ENTRAÎNANT DES DOMMAGES, DES BLESSURES OU LA MORT.**

- A.** Cet appareil est muni d'une veilleuse qui doit être allumée avec un allumeur piézo-électrique. Lorsque vous allumez la veilleuse, suivre exactement ces instructions.
- B. AVANT L'ALLUMAGE:** Avant d'allumer la veilleuse, reniflez tout autour de l'appareil pour déceler une odeur de gaz. Reniflez près du plancher, car certains gaz sont plus lourds que l'air et peuvent s'accumuler au niveau du sol.

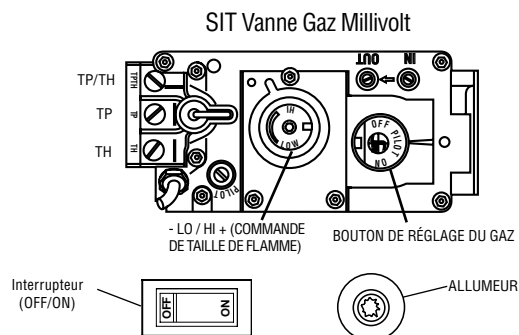
#### QUE FAIRE SI VOUS SENTEZ UNE ODEUR DE GAZ :

- Ne pas tenter d'allumer d'appareil.
- Ne touchez à aucun interrupteur ; ne pas vous servir des téléphones se trouvant dans le bâtiment.

- Appelez immédiatement votre fournisseur de gaz depuis un voisin. Suivez les instructions du fournisseur.
  - Si vous ne pouvez rejoindre le fournisseur, appelez le service des incendies.
- C.** Ne pousser ou tourner la manette d'admission du gaz qu'à la main. Ne jamais employer d'outil à cette fin. Si la manette reste coincée, ne tentez pas de la réparer; appelez un technicien qualifié. Quiconque tente de forcer la manette ou de la réparer peut provoquer une explosion ou un incendie.
- D.** N'utilisez pas cet appareil s'il a été plongé dans l'eau, même partiellement. Faites inspecter l'appareil par un technicien qualifié et remplacez toute partie du système de contrôle et toute commande qui ont été plongés dans l'eau.

### INSTRUCTIONS D'ALLUMAGE

- ARRÊTEZ !** Lisez les instructions de sécurité sur la portion supérieure de cette étiquette..
- Ouvrez le compartiment de contrôle du bas.
- Tournez l'interrupteur mural à la position d'arrêt "OFF".
- Assurez-vous que la soupape d'arrêt de la canalisation principale est ouverte.
- Enfoncez légèrement le bouton de réglage du gaz et tournez-le dans le sens des aiguilles d'une montre jusqu'à la position d'arrêt "OFF".



**Remarque:** Il est impossible de tourner le bouton de "PILOT" à "OFF" à moins qu'il ne soit légèrement enfoncé. Ne le forcez pas.

- Attendre cinq (5) minutes pour laisser échapper tout le gaz. Reniflez tout autour de l'appareil, y compris près du plancher, pour déceler une odeur de gaz. Si vous sentez une odeur de gaz, **ARRÊTEZ !** Passez à l'étape B des instructions de sécurité sur la portion supérieure (à gauche) de cette étiquette. S'il n'y a pas d'odeur de gaz, passez à l'étape suivante.
- Enfoncez légèrement le bouton de réglage du gaz et tournez-le en sens inverse des aiguilles d'une montre jusqu'à la position de veilleuse "PILOT".

- Enfoncez le bouton de réglage jusqu'au fond et gardez-le enfoncé. Allumez immédiatement la veilleuse en déclenchant l'allume-gaz à étincelle (en poussant le bouton) jusqu'à ce que la veilleuse s'enflamme. Continuez de tenir le bouton de réglage enfoncé pendant environ 90 secondes après l'allumage de la veilleuse. Relâchez le bouton et il sortira subitement. La veilleuse devrait rester allumée. Si elle s'éteint, répétez les étapes 5 à 8 inclusivement.

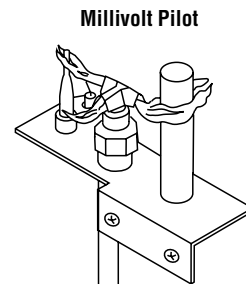
- Si le bouton ne sort pas automatiquement après avoir été relâché, arrêtez immédiatement et téléphonez à votre technicien de service ou à votre fournisseur de gaz.

- Si la veilleuse refuse de rester allumée après plusieurs tentatives, tournez le bouton de réglage jusqu'à sa position d'arrêt "OFF" et téléphonez à votre technicien de service ou à votre fournisseur de gaz.

- Tournez le bouton de réglage du gaz en sens inverse des aiguilles d'une montre jusqu'à sa position de marche "ON".

- Fermez le compartiment de contrôle du bas.

- Si l'appareil ne fonctionne pas, suivre les instructions intitulées "Pour fermer le gaz qui alimente l'appareil" et appeler un technicien ou le fournisseur de gaz.



### POUR FERMER LE GAZ QUI ALIMENTE L'APPAREIL

- Tournez l'interrupteur mural à la position d'arrêt "OFF". La veilleuse restera allumée jusqu'au retour du service normal.
- Pour une fermeture complète, tournez l'interrupteur mural à la position d'arrêt "OFF".
- Ouvrez le compartiment de contrôle du bas.

- Enfoncez légèrement le bouton de réglage du gaz et tournez-le dans le sens des aiguilles d'une montre jusqu'à la position d'arrêt "OFF". Ne forcez pas le bouton.

- Fermez le compartiment de contrôle du bas.

REMARQUE : LES SCHÉMAS ET LES ILLUSTRATIONS NE SONT PAS À L'ÉCHELLE

## OPERATING INSTRUCTIONS — ELECTRONIC

### FOR YOUR SAFETY READ BEFORE OPERATING

**WARNING: IF YOU DO NOT FOLLOW THESE INSTRUCTIONS EXACTLY, A FIRE OR EXPLOSION MAY RESULT CAUSING PROPERTY DAMAGE, PERSONAL INJURY OR LOSS OF LIFE.**

**A.** This appliance is equipped with an ignition device which automatically lights the pilot. Do not try to light the pilot by hand.

**B. BEFORE OPERATING** smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

#### WHAT TO DO IF YOU SMELL GAS

- Do not try to light any appliance.
- Do not touch any electric switch; do not use any phone in your building.

- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.

**C.** If any portion of this appliance does not operate as the instructions indicate, do not try to repair it, call a qualified service technician. Do not use tools. Force or attempted repair may result in a fire or explosion.

**D.** Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

### OPERATING INSTRUCTIONS

**1. STOP!** Read the safety information above on this page.

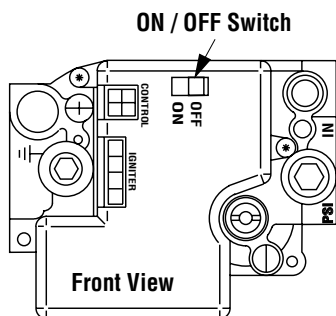
**2.** Turn remote wall switch to "OFF."

**3.** Open lower control compartment door.

**4.** Verify main line shut-off valve is open.

**5.** Turn the OFF/ON switch to "OFF". Do not force.

Honeywell Electronic Gas Control Valve



**6.** Wait five (5) minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, STOP! Follow "B" in the safety information above (to the left) on this label. If you don't smell gas, go to the next step.

**7.** Turn the OFF/ON switch to "ON". Do not force.

**8.** Turn "ON" all electrical power to appliance (remote wall or appliance switch).

**9.** Close lower control compartment door.

**10.** If the appliance will not operate, follow the instructions "To Turn Off Gas To Appliance" and call your service technician or gas supplier.

#### TO SHUT OFF

**1.** Turn off all electrical power to the appliance (remote wall switch).

### TO TURN OFF GAS TO APPLIANCE

**1.** For complete shut-down, turn remote wall switch to "OFF."

**2.** Open lower control compartment door.

**3.** Turn the OFF/ON switch to "OFF". Do not force.

**4.** Close the main line shut-off valve.

**5.** Close lower control compartment door.



## INSTRUCTIONS D'ALLUMAGE — ELECTRONIC

### POUR PLUS DE SÉCURITÉ LIRE AVANT DE METTRE EN MARCHÉ

**AVERTISSEMENT: SI VOUS NE SUIVEZ PAS CES INSTRUCTIONS À LA LETTRE, IL POURRAIT S'EN SUIVRE UN INCENDIE OU UNE EXPLOSION CAUSANT DES DOMMAGES MATÉRIELS, DES BLESSURES CORPORELLES OU MÊME DES PERTES DE VIE.**

**A.** Cet appareil est muni d'un dispositif d'allumage qui allume automatiquement la veilleuse. Ne tentez pas d'allumer la veilleuse manuellement.

**B. AVANT DE FAIRE FONCTIONNER:** reniflez tout autour de l'appareil pour déceler une odeur de gaz. Reniflez près du plancher, car certains gaz sont plus lourds que l'air et peuvent s'accumuler au niveau du sol.

#### QUE FAIRE SI VOUS SENTEZ UNE ODEUR DE GAZ :

- Ne pas tenter d'allumer d'appareil.
- Ne touchez à aucun interrupteur; ne pas vous servir des téléphones se trouvant dans le bâtiment.

- Appelez immédiatement votre fournisseur de gaz depuis un voisin. Suivez les instructions du fournisseur.
- Si vous ne pouvez rejoindre le fournisseur, appelez le service des incendies.

**C.** Si un élément de cette unité ne fonctionne pas tel que décrit dans les instructions, n'essayez pas de le réparer, appelez un technicien qualifié. N'utilisez-pas d'outils. Le fait de forcer la manette ou de la réparer peut déclencher une explosion ou un incendie.

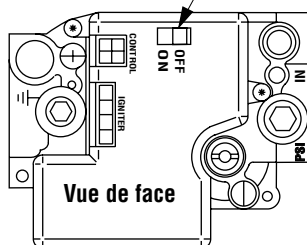
**D.** N'utilisez pas cet appareil s'il a été plongé dans l'eau, même partiellement. Faites inspecter l'appareil par un technicien qualifié et remplacez toute partie du système de contrôle et toute commande qui ont été plongés dans l'eau.

### INSTRUCTIONS DE MISE EN MARCHÉ

1. **ARRÊTEZ !** Lisez les instructions de sécurité sur la portion supérieure (à gauche) de cette étiquette.
2. Tournez l'interrupteur mural à la position d'arrêt "OFF".
3. Ouvrez la porte du compartiment de contrôle du bas.
4. Assurez-vous que la soupape d'arrêt de la canalisation principale est ouverte.
5. Tournez la manette de réglage du gaz à la position d'arrêt "OFF".

#### Honeywell Vanne Gaz Électronique

##### Interrupteur ON / OFF



6. Attendre cinq (5) minutes pour laisser échapper tout le gaz. Reniflez tout autour de l'appareil, y compris près du plancher, pour déceler une odeur de gaz. Si vous sentez une odeur de gaz, ARRÊTEZ ! Passez à l'étape B des instructions de sécurité sur la portion supérieure (à gauche) de cette étiquette. S'il n'y a pas d'odeur de gaz, passez à l'étape suivante.
7. Tournez la manette de réglage du gaz jusqu'à la position de marche "ON". Ne la forcez pas.
8. Ouvrez le courant électrique ("ON") qui alimente l'appareil (interrupteur mural ou l'appareil).
9. Fermez la porte du compartiment de contrôle du bas.
10. Si l'appareil ne se met pas en marche, suivre les instructions intitulées "Pour fermer le gaz qui alimente l'appareil" et appeler un technicien ou le fournisseur de gaz.

#### POUR ÉTEINDRE L'APPAREIL

1. Coupez tout le courant électrique qui alimente l'appareil (interrupteur mural).

### POUR FERMER LE GAZ QUI ALIMENTE L'APPAREIL

1. Pour une fermeture complète, tournez l'interrupteur mural à la position d'arrêt "OFF".
2. Ouvrez la porte du compartiment de contrôle du bas.
3. Tournez la manette de réglage du gaz à la position d'arrêt "OFF". Ne la forcez pas.
4. Fermez la soupape d'arrêt de la canalisation principale.
5. Fermez la porte du compartiment de contrôle du bas.

## MAINTENANCE SCHEDULE

### Annually (Before the onset of the Burning Season)

MAINTENANCE TASK	ACCOMPLISHING PERSON	PROCEDURE
Inspect/Clean Burner, Logs and Controls	Qualified Service Technician	Inspect valve and ensure it is properly operating. Check piping for leaks. Vacuum the control compartment, fireplace logs and burner area.
Check Flame Patterns and Flame Height	Qualified Service Technician	Refer to <b>Figure 15</b> on <b>Page 15</b> and verify the flame pattern and height displayed by the appliance conforms to the picture. Flames must not impinge on the logs. Ensure flames are steady (not lifting or floating).
Inspect/Clean Pilot and Burner	Qualified Service Technician	Refer to <b>Figure 17</b> and <b>Figure 18</b> on <b>Page 16</b> . Remove any surface build-up on pilot and burner assembly. Wipe the pilot nozzles, igniter/flame rod and hood. Ensure the pilot flame engulfs the flame sensor as shown.
Check Vent System	Qualified Service Technician	Inspect the vent system at the top and at the base (within the firebox) for signs of blockage or obstruction. Look for any signs of dislocation or deterioration of the vent components. Note: Inspect wall straps or plumbers's tape to ensure it is secure and in place.
Appliance Checkout	Qualified Service Technician	Perform the appropriate appliance checkout procedure detailed in this manual.
Replacing Glowing Embers	Homeowner/Qualified Service Technician	Remove old ember materials (rockwool) and vacuum the ember placement area. Place new embers as described in <b>Step 6</b> on <b>Page 14</b> .

### Periodically (After the Burning Season)

MAINTENANCE TASK	ACCOMPLISHING PERSON	PROCEDURE
Clean Firebox Interior	Homeowner	Carefully remove logs, glowing embers (rockwool), and vermiculite. Vacuum out interior of the firebox. Clean firebox walls and log grate. Replace logs, embers (rockwool) and vermiculite as detailed in this manual (see <b>Pages 12 through 15</b> ).
Check Flame Patterns and Flame Height	Homeowner	Refer to <b>Figure 15</b> on <b>Page 15</b> and verify the flame pattern and height displayed by the appliance conforms to the picture. Flames must not impinge on the logs.
Check Vent System	Homeowner	Inspect the vent system at the top and at the base (within the firebox) for signs of blockage or obstruction. Look for any signs of dislocation of the vent components.
Clean Front Glass Enclosure Panel	Homeowner	Clean as necessary following the directions provided in this manual. <b>DO NOT TOUCH OR ATTEMPT TO CLEAN GLASS WHILE HOT.</b>

## TROUBLESHOOTING THE MILLIVOLT CONTROL SYSTEM

**Note:** Before troubleshooting the gas control system, Ensure external gas shut off valve, located at gas supply inlet, (and wall switch, iff applicable), is in the "ON" position. **Important:** Valve system troubleshooting should only be accomplished by a qualified service technician.

SYMPTOM	POSSIBLE CAUSES	CORRECTIVE ACTION
1. Spark igniter will not light pilot after repeated triggering of igniter button.	<b>A.</b> Defective igniter (no spark at electrode).	Check for spark at electrode and pilot; if no spark and electrode wire is properly connected, replace igniter.
	<b>B.</b> Defective or misaligned electrode at pilot (spark at electrode).	Using a match, light pilot. If pilot lights, turn off pilot and trigger the igniter button again. If pilot lights, an improper gas mixture caused the bad lighting and a longer purge period is recommended. If pilot will not light – check gap at electrode (igniter rod) and pilot – should be 1/8" to have a strong spark. If gap measures 1/8", replace pilot (see <b>Figure 17 on Page 16</b> ).
	<b>C.</b> Gas supply pressure errant.	Check inlet gas pressure. It should be within the limits as marked on the rating plate.
	<b>D.</b> Pilot orifice plugged.	Clean or replace pilot orifice.
2. Pilot will not stay lit after carefully following the lighting instructions.	<b>A.</b> Defective pilot generator (thermocouple).	Check pilot flame, it must impinge on thermocouple (see <b>Figure 17 on Page 16</b> ). Clean and/or adjust pilot for maximum flame impingement on thermocouple. Ensure that the connection between the valve and thermocouple are tight and secure.
<b>3.</b> Pilot burning, no gas to burner, Valve knob "ON," and the (standard) burner OFF/ON switch is "ON." Read important note below.  <b>IMPORTANT NOTE:</b> If an optional *remote switch is used for burner operation, the standard burner OFF/ON switch on appliance must be in the "OFF" position.  <b>*Optional remote switch kits - wall switch or remote control.</b>	<b>A.</b> Manual Reset Spill Switch has Tripped or is defective.	Follow <i>Manual Reset</i> procedure on <b>Page 9</b> . Once the red reset button is fully depressed and clicks in, check continuity with a multimeter between switch terminal (Ohms). If it shows an open circuit, replace switch.
	<b>B.</b> Wall switch or wires defective.	Check wall switch and wires for proper connections. Jumper wire across terminals at wall switch, if burner comes on, replace defective wall switch. If okay, jumper wires across wall switch wires at valve, if burner comes on, wires are faulty or connections are bad.
	<b>C.</b> Thermopile may not be generating sufficient millivolts.	Check thermopile with millivolt meter. Take reading at thermopile terminals of gas valve. Should read 325 millivolts minimum with optional wall switch "OFF." Replace faulty thermopile if reading is below specified minimum.
	<b>D.</b> Plugged burner orifice.	Check burner orifice for blockage and remove.
	<b>E.</b> OFF/ON Switch & *Remote Switch are in the "ON" position resulting in excessive resistance.	When turning on the burner using a *remote switch, ensure that the standard OFF/ON switch is in the "OFF" position. If both switches are in the ON position, it may result in excessive resistance (& millivolt drainage) and the burner may not come on.
4. Frequent pilot/burner outage problem.	<b>A.</b> Pilot flame may be too low or blowing (high) causing the pilot/valve safety to drop out.	Clean and/or adjust pilot flame for maximum flame impingement on thermocouple (see <b>Figure 17 on Page 16</b> ).

### TROUBLESHOOTING GUIDE - ELECTRONIC IGNITION SYSTEM

SYMPTOM	POSSIBLE CAUSES	CORRECTIVE ACTION
1. Burner will not light.	<b>A.</b> Faulty Valve System.	See Below.
	<b>B.</b> "OFF/ON" or wall switch defective.	Disconnect the two black wires from the wire nuts. Test switch(s) for continuity with a multimeter. If continuity is not indicated, switch(s) is defective and must be replaced.  <b>Note:</b> Before replacing "OFF/ON" switch, Ensure to check wiring for loose connections or broken wires and repair as needed.
2. Burners come "ON," then turns "OFF."	<b>A.</b> Burner orifice plugged.	Check main burner orifice(s) for blockage. Clean or replace.
	<b>B.</b> Obstructed vent system.	Check vent system for obstructions.

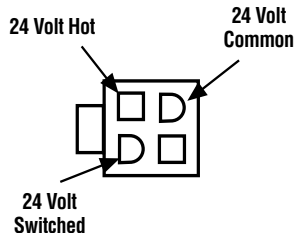
# TROUBLESHOOTING THE ELECTRONIC IGNITION SYSTEM

## START

- Turn Off Gas Supply.
- Ensure Valve Switch Is In ON Position.
- Disconnect Control Harness.
- Set Thermostat To Call For Heat.

## Insert A

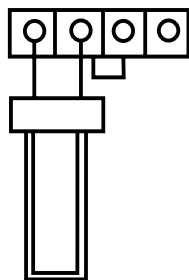
### End View of Control Harness Connector



Check For Damaged or Missing Terminals in Connector

## Insert B

### Igniter Terminals



## CHECK

- Check for proper voltage at control harness (see insert A). Voltage should be 24V between thermostat or pressure switch and 24V common and 24V hot.

2

NO

- Line voltage power
- Low voltage transformer
- Limit controller
- Thermostat
- Wiring

YES

- Plug control harness into valve. Wait for internal check delay.

- Igniter warms up and glows red.

NO

1

YES

- Turn on gas supply.
- Pilot burner lights.

NO

- With pilot burner cable connected, measure voltage at valve HSI element output. 24V nominal. (See insert B)

1

2

YES

- Replace igniter/flame rod assembly.

YES

- Check that pilot gas is flowing. Wait to ensure pilot gas tubing is purged. Recycle call for heat if necessary.

NO

- Replace valve.

NO

- Replace valve.

YES

- Measure voltage between 24V hot and 24V common leads to valve control. Must measure at least 19.5 VAC with igniter powered (see insert A). To identify proper lead, this check must be done with the valve control connected and igniter powered.

NO

- Check transformer and line volt supply.

YES

- Replace Pilot Assembly.

YES

- Main valve opens and main burner lights.

NO

- Check that pilot flame makes good contact with pilot burner flame rod.
- Check for good electrical connection through the pilot tubing.
- If both of the above are good, replace igniter/flame rod assembly.

YES

- Cycle thermostat off and back on.

YES

- System Is okay.

- Main burner lights.

NO

- Replace valve.

1

Igniter will cycle off and back on once during the 90 second ignition trial. All voltage measurements must be taken while the igniter is powered.

2

When measuring voltage at connections, use care to ensure terminals are not damaged.

## REPLACEMENT PARTS LIST - MPB35ST

Item	Part/Cat. No.	Qty	Description	Where Used
<b>SIT Millivolt Only</b>				
1	H3357	1	Gas Train Assembly, NG, MV	MPB35ST-NM
1	H3355	1	Gas Train Assembly, LP, MV	MPB35ST-PM
<b>Honeywell Electronic Only</b>				
2	H3356	1	Gas Train Assembly, NG, Electr.	MPB35ST-NE
3	H4977	1	Transformer	MPB35ST-NE & MPB35ST-PE
<b>Misc. Replacement Parts</b>				
4	H3351	2	Side Panels	All
5	H3352	1	Burner, Pan	All
6	H3353	1	*Electrical kit	All
7	H5016	2	Eyebrow Panel	All
8	93L32	1	Flex Line Gas Connector, FFGC	All
9	H4864	2	Glass Enclosure Assembly	All
10	88L53		Glowing Embers (1 oz.), FGE	All
11	H3358	1	Grate Assembly	All
12	69L21	4	Latch, Glass Enclosure Panel	All
13	H3354	1	Firebox Sub-floor	All

Contact an Authorized Lennox Hearth Products dealer to obtain any of these parts. Never use substitute materials. Use of non-approved parts can result in poor performance and safety hazards.

Item	Part/Cat. No.	Qty	Description	Where Used
<b>Misc. Replacement Parts</b>				
14	H3210	1	Log Set	All
15	H3726	2	Louver Assembly, Upper Black	All
16	H3734	1	Louver Assembly, Lower, Black (valve access side)	All
17	H3359	1	Louver Assembly, Lower, Black	All
18	69L31	2	Magnet, Latch, Spring-Loaded	All
19	94326	2	Magnet	All
20	H3740	8	Nailing Flange	All
21	12L15	2	Nameplate, Lennox	All
22	24M10	1	Orifice, Burner, NG, #37 (.104")	MPB35ST-NM & MPB35ST-NE
22	42M79	1	Orifice, Burner, LP, 1.55mm (.061")	MPB35ST-PM & MPB35ST-PE
23	91K94	1	Piezo Igniter (w/wire)	MPB35ST-NM & MPB35ST-PM
24	27K30	1	Switch, OFF/ON, Rocker	All
10	H6319	1	Vermiculite, Bag (2 liters)	All



### WARNING

Failure to position the parts in accordance with these diagrams or failure to use only parts specifically approved with this appliance may result in property damage or personal injury.



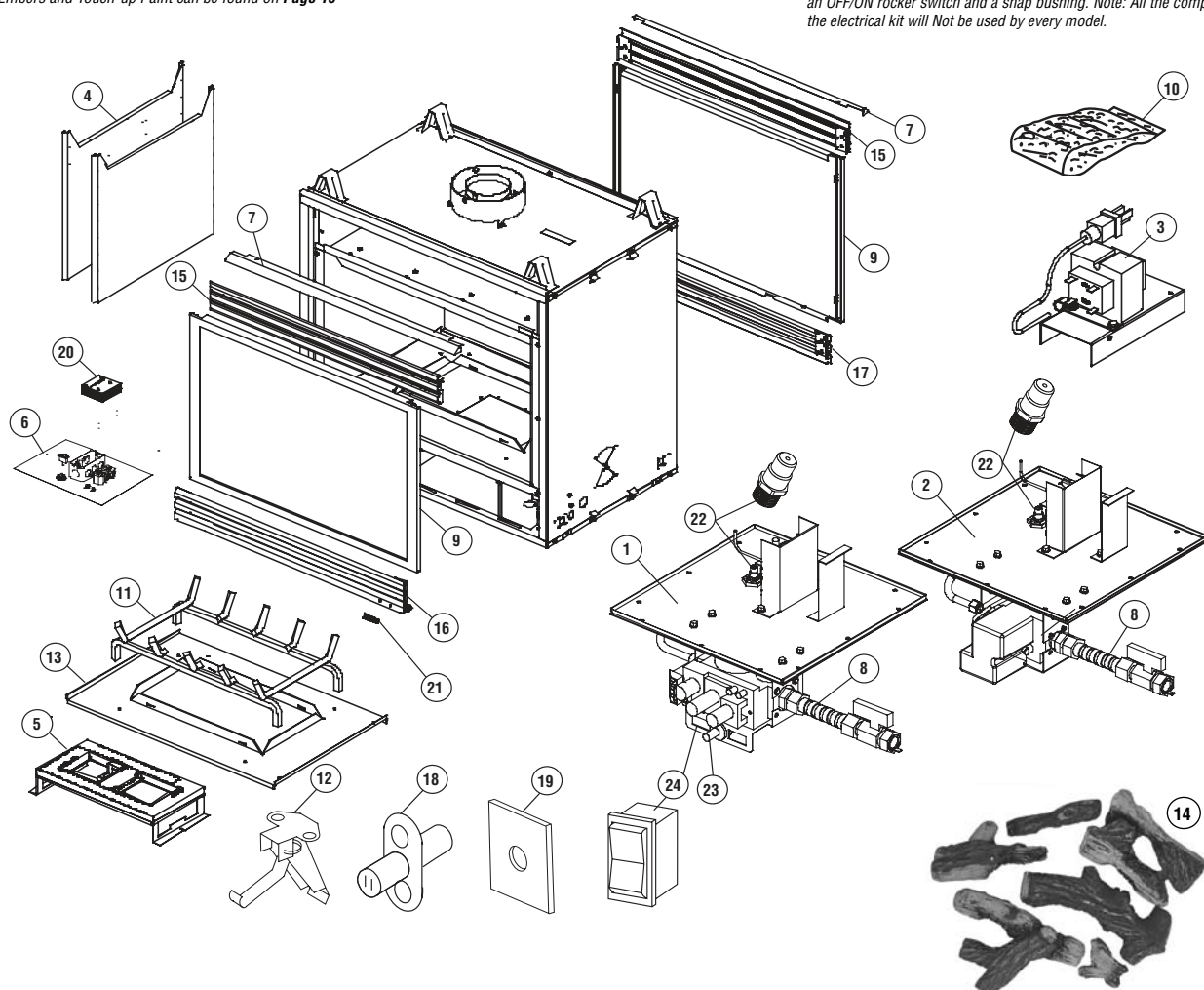
### AVERTISSEMENT

Risque de dommages ou de blessures si les pièces ne sont pas installées conformément à ces schémas et ou si des pièces autres que celles spécifiquement approuvées avec cet appareil sont utilisées.

## REPLACEMENT PARTS - MPB35ST

**Note:** Ordering information for Volcanic Stone, Glowing Embers and Touch-up Paint can be found on **Page 16**

*\* Electrical Outlet Kit consists of a junction box, 2 screws, an receptacle outlet, an OFF/ON rocker switch and a snap bushing. Note: All the components in the electrical kit will Not be used by every model.*





---

Lennox Hearth Products reserves the right to make changes at any time, without notice, in design, materials, specifications, prices and also to discontinue colors, styles and products. Consult your local distributor for fireplace code information.



Printed in U.S.A. © 2005 Lennox Hearth Products

**P/N 875024M REV. D 01/2011**

**1508 Elm Hill Pike, Suite 108 • Nashville, TN 37210**